



GIZA CABLE INDUSTRIES
الجيزة لصناعة الكابلات

TELEPHONE CABLES, POWER CABLES & ENAMELED WIRES

POWER CABLES

TECHNICAL CATALOGUE

POWER CABLES

TECHNICAL CATALOGUE



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Low Voltage Technical Data

Medium Voltage Cables

Unarmoured Aluminium Conductor XLPE Insulated And PVC Sheathed 6/10(12) KV
Unarmoured Copper Conductor XLPE Insulated And PVC Sheathed 6/10(12) KV
Aluminium Conductor XLPE Insulated Steel Taped Armoured And PVC Sheathed 6/10(12) KV
Copper Conductor XLPE Insulated Steel Taped Armoured And PVC Sheathed 6/10(12) KV
Aluminium Conductor XLPE Insulated Steel Wires Armoured And PVC Sheathed 6/10(12) KV
Copper Conductor XLPE Insulated Steel Wires Armoured And PVC Sheathed 6/10(12) KV
Unarmoured Aluminium Conductor XLPE Insulated And PVC Sheathed 8.7/15(17.5) KV
Unarmoured Copper Conductor XLPE Insulated And PVC Sheathed 8.7/15(17.5) KV
Aluminium Conductor XLPE Insulated Steel Taped Armoured And PVC Sheathed 8.7/15(17.5) KV
Copper Conductor XLPE Insulated Steel Taped Armoured And PVC Sheathed 8.7/15(17.5) KV
Aluminium Conductor XLPE Insulated Steel Wires Armoured And PVC Sheathed 8.7/15(17.5) KV
Copper Conductor XLPE Insulated Steel Wires Armoured And PVC Sheathed 8.7/15(17.5) KV
Unarmoured Aluminium Conductor XLPE Insulated And PVC Sheathed 12/20(24) KV
Unarmoured Copper Conductor XLPE Insulated And PVC Sheathed 12/20(24) KV
Aluminium Conductor XLPE Insulated Steel Taped Armoured And PVC Sheathed 12/20(24) KV
Copper Conductor XLPE Insulated Steel Taped Armoured And PVC Sheathed 12/20(24) KV
Aluminium Conductor XLPE Insulated Steel Wires Armoured And PVC Sheathed 12/20(24) KV
Copper Conductor XLPE Insulated Steel Wires Armoured And PVC Sheathed 12/20(24) KV
Unarmoured Aluminium Conductor XLPE Insulated And PVC Sheathed 18/30(36) KV
Unarmoured Copper Conductor XLPE Insulated And PVC Sheathed 18/30(36) KV
Aluminium Conductor XLPE Insulated Steel Taped Armoured And PVC Sheathed 18/30(36) KV
Copper Conductor XLPE Insulated Steel Taped Armoured And PVC Sheathed 18/30(36) KV
Aluminium Conductor XLPE Insulated Steel Wires Armoured And PVC Sheathed 18/30(36) KV
Copper Conductor XLPE Insulated Steel Wires Armoured And PVC Sheathed 18/30(36) KV
Medium Voltage Technical Data

High Voltage Cables

Copper Conductor XLPE Insulated, Copper Wire Screen HDPE Sheathed 38/66(72.5) Kv
Copper Conductor XLPE Insulated Lead and HDPE Sheathed 38/66(72.5) Kv

Overhead Cables

Bare Hard Drawn Stranded All Aluminium Conductors (Aac)
Pvc Insulated Hard Drawn Stranded All Aluminium Conductors
Weather - Proof Service Drop Cables 0.6 Kv
Bare All Aluminium Alloy Conductors (Aaac)
Aluminium Conductors Steel Reinforced (ACSR)

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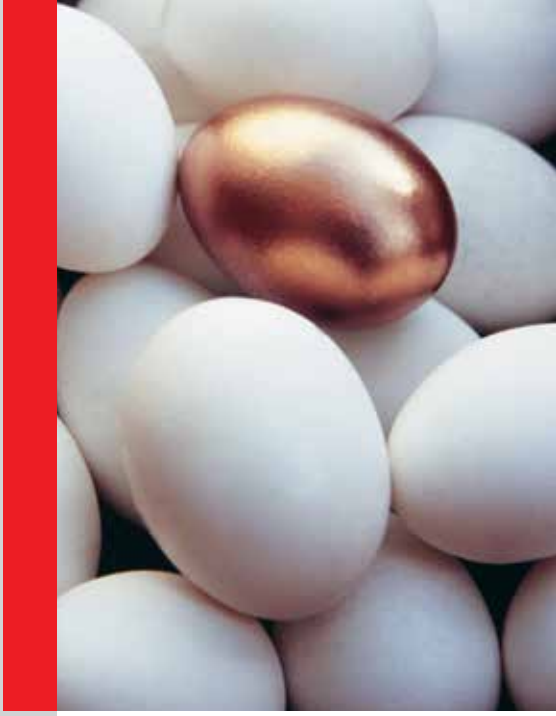


A FEW WORDS FROM CHAIRMAN AND FOUNDER

"Continued innovation has been the key propeller in the expansion of our business, from the acquisition of the best production processes and their operation, to the adoption of the latest management models and highest customer service standards. Our three cornerstone values revolve around differentiation in quality of everything we do, provision of solid support to our clients, and possession of the vision to build profitable long-term relationships. **gc3** employs state-of-the-art technology for lean manufacturing and cycle time reduction, delivering superior cost-competitive prices faster than anyone else in the market. All our products are ISO-9001-certified, KEMA certified, and comply with the highest international testing and industrial standards and codes. It is our quest to pool our collective expertise, including my 56 years of experience in this market, to present our clients with an unprecedented experience."

El Sayed Mohsen

THE CODE



DIFFERENTIATION IN QUALITY

of Product, Service and Overall Experience

gc3 strives to stand out in every aspect. When it comes to the **quality of the product**, **gc3** is renowned for its **stringent quality control** measures, which comply with the international testing standards. Our engineers perform rigorous tests to insure all cycles meet the strict predefined requirements, from the selection of raw materials to the packaging of the finished product. **gc3** prides itself on delivering a **quality of service** that is second to none in the market. Our clients testify that our response time is unparalleled and that our **flexibility** in adapting to changes and fulfilling last-minute orders are crucial to achieving their goals. Our distinction lies in the **unique quality of the overall experience**. Even the smallest details help to shape this experience, from the quality of our people's knowledge, to the **quality of the attention** and the time given to every client. The intense involvement of the Management Team bestows an element of **personalization** to every client's experience, irrespective of their volume of business.

SOLID SUPPORT

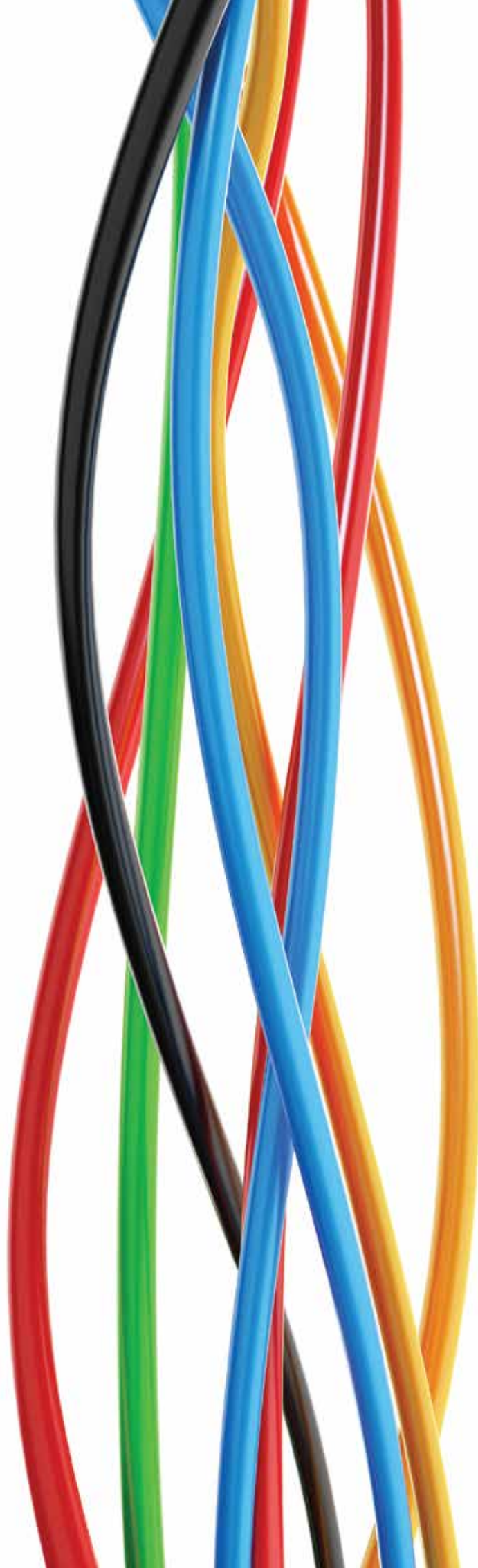
based on Strength, Reliability and Determination

In a fast evolving market, providing outstanding customer support remains our top priority. The **strength of our workforce**, in terms of knowledge, experience and **dedication** stems from recruiting the best talent in the market. Our sales people employ a consultative selling approach, and our highly skilled engineers, service technicians and managers come together as part of a cohesive whole to serve our clients. Our **reputation for reliability and consistency** has gained us the coveted **trust** of our customers. Our word is our guarantee to deliver, across all stages of the process, from pricing, to on-time delivery and after-sales service. **gc3** **determination to exceed clients' expectations** is the basis for continuous development and abundant internal improvement initiatives. Today we're a **service-oriented, attribute-driven company**. Product development and customer service are driven by customer needs, based on solution-oriented engineering, and substantiated with an acute analysis of local and worldwide market trends.

LONG-TERM PARTNERSHIPS

with Suppliers and Employees for Clients

gc3 amasses the best resources with a vision for long-term relationships of mutual benefit. Part of the value of our clients is rooted in demanding **excellence from our suppliers**. **gc3** has a long-standing pledge to **partner with the best** machinery and system manufacturers, such as Niehoff Gruppe (Germany), Maillefer Extrusion (Finland), and Pourtier (France). This continues to increase our cost-effective output and efficiency levels. A main driver of our success has been our **reciprocated commitment to our people**. We grow as a company by growing our people, listening to them, and providing them with a sense of ownership of the process. Their professional fulfilment, **work/life balance** and incentive systems are of utmost importance to us. Consequently, almost 30% have been with **gc3** for over 10 years and we take pride in being OHSAS 18001 certified (Occupational Health and Safety Certificate for Health and Safety Measures), and ROHS certified (Restriction of Hazardous Substances). Our main reward is the **loyalty of our customers**, which has evolved through the years. We aim to increase our new customer base, as well as enhance our **customer retention rate** by giving precedence to customer satisfaction over all else.



ABOUT THE COMPANY

To garner the justified recognition for its broad range of products, the company formerly known as Giza Telephone Cables (GTC) has relaunched itself with the new name Giza Cable Industries (**gc3**), representing its three domains of production; Telephone Cables, Power Cables, and Enameled Wires.

gc3 has gradually expanded its product lines, starting with telephone cables at its inception in 1994, then adding enameled and building wires in 1997 and 1998 respectively. **gc3** is currently in the process of expanding its production capacity and range to include cables up to 66 KV by mid 2013, enabling our clients to find all their needs under one roof. Throughout these expansions, **gc3** has had a solid financial position winning its shareholders' support and commitment.

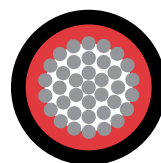
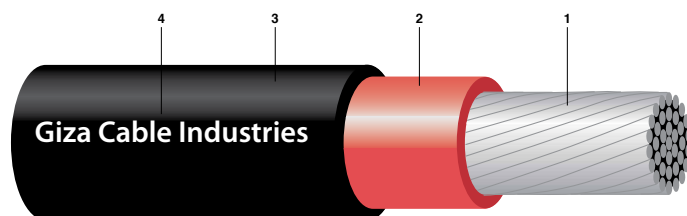
gc3 caters to a growing governmental and private-sector clientele base, including different manufacturing industries, service industries, private contractors as well as the retail industry. We have been a long-term supplier for Telecom Egypt, securing a 35% share of the telecom industry. Our power cables are catered to various distribution, generation, and transmission sectors, both governmental and private, where our sales and marketing efforts are maximized. **gc3** has carved a niche for itself in the global market, exporting over 20% of its current sales to the Levant, GCC, and North Africa, with a target to increase exports to a minimum of 40%.





LOW VOLTAGE CABLES

UNARMoured CABLES, ALUMINUM CONDUCTORS, PVC INSULATED AND SHEATHED (0.6/1 KV)



1. Stranded Aluminum Conductor.
2. PVC Insulation (PVC/A).
3. PVC Sheath.
4. Cable Marking.

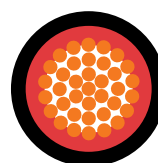
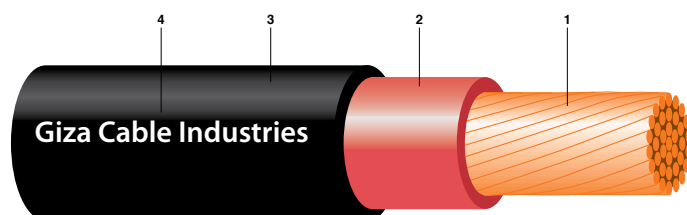
DESCRIPTION	Single core cables with aluminum conductor, PVC insulated and sheathed. Cables rated 0.6/1 KV conform to IEC 60502-1.	
CONSTRUCTION	Conductor	Plain circular stranded, aluminum conductors, per IEC 60228 class 2.
	Insulation	PVC /A Insulated for 70°C.
	Sheath	PVC to IEC 60502-1. color black. Special PVC with flame retardant or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Single core - red (black colour on request)	
APPLICATION	These cables have been designated for general purpose, including underground use where they are not likely to suffer from mechanical damage.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement, GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Electrical Characteristics		Current Rating						Packing		
	Cross Sectional Area Nominal (mm ²)	Max. DC Resistance at 20° C (ohm/km)	Max. AC Resistance at 70° C (ohm/km)	Laid in Free air Amps.			Laid in ground Amps.			Overall Diameter approx. (mm)	Net weight approx. (kg/km)	Standard Packing (m ± 5 %)
				○	○○	○○○	○○○	○○○	○○○			
QDB1-38AABY	16rm	1.91	2.29	80	79	64	60	80	78	10.6	125	1000
QDB1-48AABY	25rm	1.20	1.44	105	98	85	78	105	101	12.3	177	1000
QDB1-53AABY	35rm	0.868	1.04	125	125	105	94	125	121	13.5	219	1000
QDB1-59AABY	50rm	0.641	0.77	149	138	125	112	149	143	15.3	276	1000
QDB1-64AABY	70rm	0.443	0.533	185	155	158	137	183	173	17.1	357	1000
QDB1-68AABY	95rm	0.320	0.385	222	200	195	165	220	208	19.6	479	1000
QDB1-72AABY	120rm	0.253	0.305	253	245	223	190	250	238	21.2	564	1000
QDB1-77AABY	150rm	0.206	0.248	283	280	260	212	280	268	23.6	690	1000
QDB1-80AABY	185rm	0.164	0.198	322	317	300	244	315	304	26.0	853	500
QDB1-83AABY	240rm	0.125	0.151	375	370	365	283	369	350	29.5	1083	500
YDB1-87AABY	300rm	0.100	0.122	425	420	425	322	423	390	32.5	1334	500
YDB1-88AABY	400rm	0.0778	0.0954	488	478	500	365	482	450	36.3	1665	500
YDB1-89AABY	500rm	0.0605	0.0751	561	554	580	415	554	512	40.0	2055	500
YDB1-90AABY	630rm	0.0469	0.0595	647	640	678	475	637	585	44.2	2655	500

rm – circular stranded conductor

UNARMoured CABLES, COPPER CONDUCTORS, PVC INSULATED AND SHEATHED (0.6/1 KV)



1. Stranded Copper Conductor.
2. PVC Insulation (PVC/A).
3. PVC Sheath.
4. Cable Marking.

DESCRIPTION	Single core cables with copper conductor, PVC insulated and sheathed. Cables rated 0.6/1 KV and conform to IEC 60502-1.	
CONSTRUCTION	Conductor	Plain circular solid or stranded, copper conductors, per IEC 60228 class 1 and 2.
	Insulation	PVC /A Insulated for 70°C.
	Sheath	PVC to IEC 60502-1. color black. Special PVC with flame retardant or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Single core - red (black colour on request)	
APPLICATION	These cables have been designated for general purpose, including underground use where they are not likely to suffer mechanical damage.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

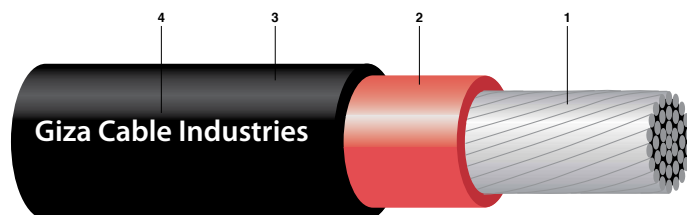
Note: In the interests of product improvement, GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Electrical Characteristics		Current Rating						Packing		
	Cross Sectional Area Nominal (mm ²)	Max. DC Resistance at 20° C (ohm/km)	Max. AC Resistance at 70° C (ohm/km)	Laid in Free air Amps.			Laid in ground Amps.			Overall Diameter approx. (mm)	Net weight approx. (kg/km)	Standard packing (m ± 5 %)
				○	○○○	○○○	○○○	○○○	○○○			
ADB1-16AABY	1.5re	12.1	14.5	25	24	18	20	25	24	6.4	48	1000
CDB1-19AABY	1.5rm	12.1	14.5	25	24	18	20	25	24	6.6	49	1000
ADB1-23AABY	2.5re	7.41	8.87	33	32	23	27	33	32	6.8	59	1000
CDB1-26AABY	2.5rm	7.41	8.87	33	32	23	27	33	32	7.0	62	1000
CDB1-31AABY	4rm	4.61	5.52	39	35	31	32	42	40	8.0	86	1000
CDB1-33AABY	6rm	3.08	3.69	53	50	40	40	52	50	8.6	109	1000
CDB1-35AABY	10rm	1.83	2.19	66	59	53	52	72	68	9.5	152	1000
CDB1-38AABY	16rm	1.15	1.38	82	75	66	65	93	88	10.5	214	1000
CDB1-48AABY	25rm	0.727	0.87	105	96	92	85	117	114	11.9	314	1000
CDB1-53AABY	35rm	0.524	0.627	133	129	112	105	140	137	13.3	413	1000
CDB1-59AABY	50rm	0.387	0.464	168	156	144	125	165	160	15.2	542	1000
CDB1-64AABY	70rm	0.268	0.322	207	204	186	155	204	200	17.0	736	1000
CDB1-68AABY	95rm	0.193	0.232	259	255	242	185	242	236	19.4	1012	1000
CDB1-72AABY	120rm	0.153	0.185	308	298	286	210	277	370	21.0	1230	1000
CDB1-77AABY	150rm	0.124	0.151	338	330	322	235	312	300	23.3	1881	1000
CDB1-80AABY	185rm	0.0991	0.1215	427	400	368	270	357	348	26.0	2527	500
CDB1-84AABY	240rm	0.0754	0.0941	552	462	443	310	415	400	27.7	3135	500
CDB1-87AABY	300rm	0.0601	0.0767	633	492	518	350	460	440	30.6	3971	500
CDB1-88AABY	400rm	0.047	0.0623	425	560	598	390	529	497	34.1	5026	500
CDB1-89AABY	500rm	0.0366	0.0513	828	654	690	435	592	540	37.8	5380	500
CDB1-90AABY	630rm	0.0283	0.0431	850	820	732	495	675	600	43.2	6620	500

re – circular solid conductor

rm – circular stranded conductor

UNARMoured CABLES, ALUMINUM CONDUCTORS, XLPE INSULATED AND SHEATHED (0.6/1 KV)



1. Stranded Aluminum Conductor.
2. XLPE Insulation.
3. PVC Sheath.
4. Cable Marking.

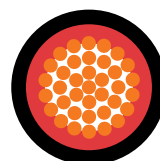
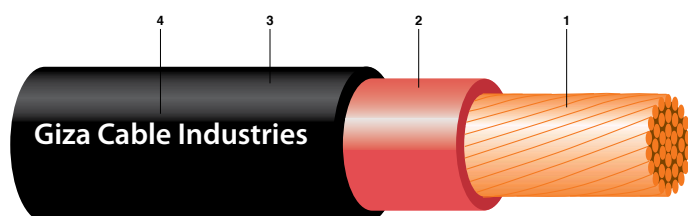
DESCRIPTION	Single core cables with aluminum conductor, XLPE insulated and PVC sheathed. Cables rated 0.6/1 KV conform to IEC 60502-1.	
CONSTRUCTION	Conductor	Plain circular stranded aluminum conductor to IEC 60228 class 2.
	Insulation	XLPE (cross-linked polyethylene) rated 90°C.
	Sheath	PVC ST2 to IEC 60502 - 1. Special PVC with flame retardant or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Single core - red (black colour on request)	
APPLICATION	These cables have been designated for general purpose, including underground use where they are not likely to suffer mechanical damage.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement, GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Electrical Characteristics		Current Rating						Packing		
	Cross Sectional Area Nominal (mm ²)	Max. DC Resistance at 20° C (ohm/km)	Max. AC Resistance at 90° C (ohm/km)	Laid in Free air Amps.			Laid in ground Amps.			Overall Diameter approx. (mm)	Net weight approx. (kg/km)	Standard packing (m ± 5 %)
				○	○○	○○○	○○○	○○○	○○○			
QNB1-38AABY	16rm	1.91	2.45	87	85	68	63	85	83	9.9	109	1000
QNB1-48AABY	25rm	1.20	1.54	120	112	90	82	112	107	11.6	154	1000
QNB1-53AABY	35rm	0.868	1.113	150	138	112	98	138	128	12.8	190	1000
QNB1-59AABY	50rm	0.641	0.822	181	170	135	117	170	151	14.4	242	1000
QNB1-64AABY	70rm	0.443	0.569	243	215	172	145	215	185	16.4	318	1000
QNB1-68AABY	95rm	0.320	0.411	287	268	213	175	268	222	18.5	418	1000
QNB1-72AABY	120rm	0.253	0.325	332	315	250	202	312	254	20.3	504	1000
QNB1-77AABY	150rm	0.206	0.265	391	360	285	228	358	285	22.6	618	1000
QNB1-80AABY	185rm	0.164	0.212	454	418	332	260	416	320	24.8	760	500
QNB1-83AABY	240rm	0.125	0.163	547	500	400	300	497	372	28.3	960	500
YNB1-87AABY	300rm	0.100	0.131	626	580	460	340	578	420	31.1	1183	500
YNB1-88AABY	400rm	0.0778	0.103	743	685	545	390	681	480	34.7	1487	500
YNB1-89AABY	500rm	0.0605	0.0826	870	805	635	450	801	550	38.4	1843	500
YNB1-90AABY	630rm	0.0469	0.0666	1040	960	750	520	954	625	43.2	2460	500

rm – circular stranded conductor

UNARMoured CABLES, COPPER CONDUCTORS, XLPE INSULATED AND SHEATHED (0.6/1 KV)



1. Stranded Copper Conductor.
2. XLPE Insulation.
3. PVC Sheath.
4. Cable Marking.

DESCRIPTION	Single core cables with copper conductor, XLPE insulated and PVC sheathed. Cables are rated 0.6/1 KV and conform to IEC 60502 - 1.	
CONSTRUCTION	Conductor	Plain circular, solid or stranded, copper conductors, per IEC 60228 class 1 and 2.
	Insulation	XLPE (cross-linked polyethylene) rated 90°C.
	Sheath	PVC type ST2 to IEC 60502 - 1. color black. Special PVC with flame retardant or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Single core - red (black colour on request)	
APPLICATION	These cables have been designated for general purpose, including underground use where they are not likely to suffer mechanical damage.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

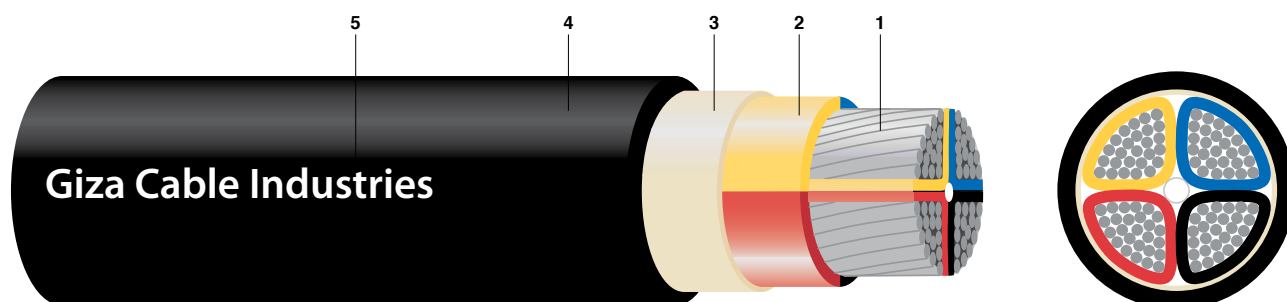
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Catalogue No.	Conductors	Electrical Characteristics		Current Rating						Packing		
	Cross Sectional Area Nominal (mm ²)	Max. DC Resistance at 20° C (ohm/km)	Max. AC Resistance at 90° C (ohm/km)	Laid in Free air Amps.			Laid in ground Amps.			Overall Diameter approx. (mm)	Net weight approx. (kg/km)	Standard packing (m ± 5 %)
				○	○○	○○○	○○○	○○○	○○○			
ANB1-16AABY	1.5re	12.1	15.4	27	26	22	22	31	29	5.6	42	1000
CNB1-19AABY	1.5rm	12.1	15.4	27	26	22	22	31	29	6.2	43	1000
ANB1-23AABY	2.5re	7.41	9.45	36	35	29	29	40	37	6.4	54	1000
CNB1-26AABY	2.5rm	7.41	9.45	36	35	29	29	40	37	6.6	57	1000
CNB1-31AABY	4rm	4.61	5.88	54	48	38	38	52	50	7.1	74	1000
CNB1-33AABY	6rm	3.08	3.93	71	60	50	47	65	64	7.7	95	1000
CNB1-35AABY	10rm	1.83	2.33	92	82	66	63	87	83	8.6	139	1000
CNB1-38AABY	16rm	1.15	1.47	128	110	88	82	112	108	9.6	200	1000
CNB1-48AABY	25rm	0.727	0.927	157	145	116	105	145	138	11.3	295	1000
CNB1-53AABY	35rm	0.524	0.669	197	180	143	127	174	165	12.4	385	1000
CNB1-59AABY	50rm	0.387	0.494	243	220	175	152	204	195	14.3	499	1000
CNB1-64AABY	70rm	0.268	0.343	306	280	225	187	251	240	16.3	703	1000
CNB1-68AABY	95rm	0.193	0.248	382	345	275	225	302	288	18.3	950	1000
CNB1-72AABY	120rm	0.153	0.197	445	410	328	260	345	328	20.1	1178	1000
CNB1-77AABY	150rm	0.124	0.160	500	462	370	290	385	365	22.3	1444	1000
CNB1-80AABY	185rm	0.0991	0.129	580	535	425	330	440	410	24.6	1791	500
CNB1-84AABY	240rm	0.0754	0.100	710	640	510	382	510	475	26.5	2385	500
CNB1-87AABY	300rm	0.0601	0.0815	900	742	585	435	570	535	29.2	2964	500
CNB1-88AABY	400rm	0.047	0.0661	972	865	680	490	655	600	32.5	3762	500
CNB1-89AABY	500rm	0.0366	0.0543	1100	1010	786	550	745	675	36.2	4779	500
CNB1-90AABY	630rm	0.0283	0.0453	1250	1185	910	620	850	752	40.9	6250	500

re – circular solid conductor

rm – circular stranded conductor

UNARMoured CABLES, ALUMINUM CONDUCTORS, PVC INSULATED AND SHEATHED (0.6/1 KV)



1. Stranded Aluminum Conductor.
2. PVC Insulation (PVC/A).
3. Poly Propylene Tape.
4. PVC Sheath.
5. Cable Marking.

DESCRIPTION	Multicore cables with aluminum conductors, PVC insulated and sheathed. Cables rated 0.6/1 KV conform to IEC 60502-1.	
CONSTRUCTION	Conductor	Plain circular or sectoral stranded, aluminum conductors, per IEC 60228 class 2.
	Insulation	PVC /A Insulated for 70°C.
	Assembly	Two, three or four insulated cores are laid up and filled with non-hygroscopic material compatible with the insulation.
	Sheath	PVC to IEC 60502-1. color black. Special PVC with flame retardant or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Two cores - red and black. Three cores - red, yellow and blue. Four cores - red, yellow, blue and black.	
APPLICATION	These cables have been designated for general purpose, including underground use where they are not likely to suffer mechanical damage.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement. GC3 reserve the right to alter cable specifications.

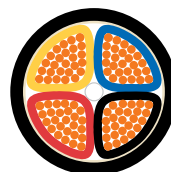
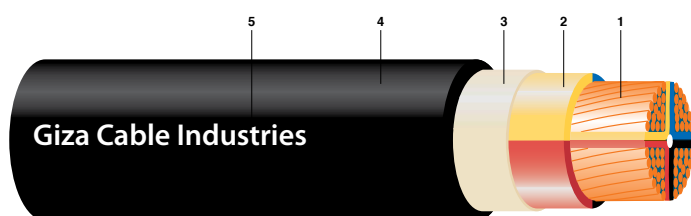
Catalogue No.	Conductors	Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal	Max. DC Resistance at 20° C	Max. AC Resistance at 70° C	Laid in Ground	Laid in Duct	Laid in Free Air	Overall Diameter approx.	Net weight approx.	Standard packing
	(mm ²)	(ohm/km)	(ohm/km)	(Amps.)	(Amps.)	(Amps.)	(mm)	(kg/km)	(m ± 5 %)
TWO CORE									
QDH2-38AABY	16rm	1.91	2.29	70	58	63	20.4	475	1000
QDH2-48AABY	25rm	1.20	1.44	91	75	83	23.8	675	1000
QDH2-53AABY	35rm	0.868	1.04	113	92	102	26.1	827	1000
THREE CORE									
QDH3-38AABY	16rm	1.91	2.29	70	58	63	21.5	546	1000
QDH3-48AABY	25rm	1.20	1.44	91	75	83	22.2	641	1000
QDH3-53AABY	35rm	0.868	1.04	113	92	102	25.2	770	1000
RDH3-59AABY	50sm	0.641	0.771	135	105	121	25.7	841	1000
RDH3-64AABY	70sm	0.443	0.533	165	131	152	28.6	1093	1000
RDH3-68AABY	95sm	0.320	0.385	197	155	184	32.9	1477	1000
RDH3-72AABY	120sm	0.253	0.305	220	179	215	37.8	1786	1000
RDH3-77AABY	150sm	0.206	0.249	250	203	248	39.7	2218	1000
RDH3-80AABY	185sm	0.164	0.199	280	232	286	43.9	2689	500
RDH3-83AABY	240sm	0.125	0.151	327	268	350	49.3	3406	500
RDH3-87AABY	300sm	0.100	0.123	369	310	399	54.6	4223	500
FOUR CORE									
QDH4-38AABY	16rm	1.91	2.29	70	58	63	23.3	641	1000
QDH4-48AABY	25rm	1.20	1.44	91	75	83	25.1	827	1000
QDH4-53AABY	35rm	0.868	1.04	113	92	102	27.5	907	1000
RDH4-59AABY	50sm	0.641	0.771	135	105	121	29.2	1102	1000
RDH4-64AABY	70sm	0.443	0.533	165	131	152	32.9	1454	1000
RDH4-68AABY	95sm	0.320	0.385	197	155	184	37.6	1943	1000
RDH4-72AABY	120sm	0.253	0.305	220	179	215	39.9	2328	1000
RDH4-77AABY	150sm	0.206	0.249	250	203	248	44.5	2850	500
RDH4-80AABY	185sm	0.164	0.199	280	232	286	50.3	3553	500
RDH4-84AABY	240sm	0.125	0.151	327	268	350	56.5	4489	500
RDH4-87AABY	300sm	0.100	0.123	369	310	399	62.6	5558	250

Catalogue No.	Conductors		Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal		Max. DC Resistance at 20° C	Max. AC Resistance at 70° C	Laid in Ground	Laid in Duct	Laid in Free Air	Overall Diameter approx.	Net weight approx.	Standard packing
	(mm ²)		(ohm/km)	(ohm/km)	(Amps.)	(Amps.)	(Amps.)	(mm)	(kg/km)	(m ± 5 %)
Four Core with reduced neutral										
QDHB-107AABY	25rm	16rm	1.20 / 1.91	1.44 / 2.29	91	75	83	24.5	760	1000
QDHB-110AABY	35rm	16rm	0.868 / 1.91	1.04 / 2.29	113	92	102	27.3	813	1000
RDHB-112AABY	50sm	25rm	0.641 / 1.20	0.771 / 1.44	135	105	121	29.2	1055	1000
RDHB-115AABY	70sm	35rm	0.443 / 0.868	0.533 / 1.04	165	131	152	32.5	1359	1000
RDHB-117AABY	95sm	50sm	0.320 / 0.641	0.385 / 0.771	197	155	184	36.7	1805	1000
RDHB-120AABY	120sm	70sm	0.253 / 0.443	0.305 / 0.533	220	179	215	39.6	2147	1000
RDHB-122AABY	150sm	70sm	0.206 / 0.443	0.249 / 0.533	250	203	248	44.0	2641	500
RDHB-125AABY	185sm	95sm	0.164 / 0.320	0.199 / 0.385	280	232	286	49.5	3282	500
RDHB-127AABY	240sm	120sm	0.125 / 0.253	0.151 / 0.305	327	268	350	55.4	4185	500
RDHB-129AABY	300sm	150sm	0.100 / 0.206	0.123 / 0.249	369	310	399	61.0	5144	250

rm – circular stranded conductor

sm – sectoral stranded conductor

UNARMoured CABLES, COPPER CONDUCTORS, PVC INSULATED AND SHEATHED (0.6/1 KV)



1. Stranded Copper Conductor.
2. PVC Insulation (PVC/A).
3. Poly Propylene Tape.
4. PVC Sheath.
5. Cable Marking.

DESCRIPTION	Multicore cables with copper conductors, PVC insulated and sheathed. Cables rated 0.6/1 KV and conform to IEC 60502-1.		
CONSTRUCTION	Conductor	Plain circular or sectoral, solid or stranded, copper conductors, per IEC 60228 class 1 and 2.	
	Insulation	PVC /A Insulated for 70°C.	
	Assembly	Two, three or four insulated cores are laid up and filled with non-hygroscopic material compatible with the insulation.	
	Sheath	PVC to IEC 60502-1. color black. Special PVC with flame retardant or anti-termite properties available on request.	
COLOURS FOR CORE IDENTIFICATION	Two cores - red and black. Three cores - red, yellow and blue. Four cores - red, yellow, blue and black.		
APPLICATION	These cables have been designated for general purpose, including underground use where they are not likely to suffer mechanical damage.		
TO ORDER	Order by catalogue number, quantity and packaging required.		

Note: In the interests of product improvement, GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal (mm ²)	Max. DC Resistance at 20° C (ohm/km)	Max. AC Resistance at 70° C (ohm/km)	Laid in Ground (Amps.)	Laid in Duct (Amps.)	Laid in Free Air (Amps.)	Overall Diameter approx. (mm)	Net weight approx. (kg/km)	Standard packing (m ± 5 %)
TWO CORE									
ADH2-16AABY	1.5re	12.1	14.5	21	18	16	12.2	139	1000
CDH2-19AABY	1.5rm	12.1	14.5	21	18	16	12.6	181	1000
ADH2-23AABY	2.5re	7.41	8.87	27	23	22	13.0	214	1000
CDH2-26AABY	2.5rm	7.41	8.87	27	23	22	13.1	228	1000
CDH2-31AABY	4rm	4.61	5.52	36	37	29	15.2	299	1000
CDH2-33AABY	6rm	3.08	3.69	45	50	37	16.4	371	1000
CDH2-35AABY	10rm	1.83	2.19	60	65	50	18.2	504	1000
CDH2-38AABY	16rm	1.15	1.38	78	83	66	20.2	675	1000
CDH2-48AABY	25rm	0.727	0.87	100	101	87	23.6	955	1000
CDH2-53AABY	35rm	0.524	0.628	125	121	106	25.8	1211	1000
THREE CORE									
ADH3-16AABY	1.5re	12.1	14.5	21	18	16	12.7	195	1000
CDH3-19AABY	1.5rm	12.1	14.5	21	18	16	13.1	209	1000
ADH3-23AABY	2.5re	7.41	8.87	27	23	22	13.5	242	1000
CDH3-26AABY	2.5rm	7.41	8.87	27	23	22	14.0	261	1000
CDH3-31AABY	4rm	4.61	5.52	36	37	29	15.9	347	1000
CDH3-33AABY	6rm	3.08	3.69	45	50	37	17.2	432	1000
CDH3-35AABY	10rm	1.83	2.19	60	50	50	18.0	527	1000
CDH3-38AABY	16rm	1.15	1.38	78	65	66	20.0	717	1000
CDH3-48AABY	25rm	0.727	0.87	100	83	87	23.7	1059	1000
CDH3-53AABY	35rm	0.524	0.628	125	101	106	22.2	1249	1000

Catalogue No.	Conductors	Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal	Max. DC Resistance at 20° C	Max. AC Resistance at 70° C	Laid in Ground	Laid in Duct	Laid in Free Air	Overall Diameter approx.	Net weight approx.	Standard packing
	(mm ²)	(ohm/km)	(ohm/km)	(Amps.)	(Amps.)	(Amps.)	(mm)	(kg/km)	(m ± 5 %)
THREE CORE									
KDH3-59AABY	50sm	0.387	0.464	150	121	130	25.7	1658	1000
KDH3-64AABY	70sm	0.268	0.322	185	150	163	28.6	2280	1000
KDH3-68AABY	95sm	0.193	0.232	220	180	201	32.9	3040	1000
KDH3-72AABY	120sm	0.153	0.185	250	205	233	37.8	3848	500
KDH3-77AABY	150sm	0.124	0.151	285	230	268	39.7	4741	500
KDH3-80AABY	185sm	0.0991	0.121	319	259	308	43.9	5895	500
KDH3-84AABY	240sm	0.0754	0.0939	366	301	364	49.3	7671	250
KDH3-87AABY	300sm	0.0601	0.0764	415	339	417	54.6	9562	250
FOUR CORE									
ADH4-16AABY	1.5re	12.1	14.5	21	18	16	13.4	228	1000
CDH4-19AABY	1.5rm	12.1	14.5	21	18	16	13.9	242	1000
ADH4-23AABY	2.5re	7.41	8.87	27	23	22	14.4	285	1000
CDH4-26AABY	2.5rm	7.41	8.87	27	23	22	14.9	295	1000
CDH4-31AABY	4rm	4.61	5.54	36	37	29	17.1	413	1000
CDH4-33AABY	6rm	3.08	3.69	45	50	37	18.5	518	1000
CDH4-35AABY	10rm	1.83	2.19	60	50	50	20.7	722	1000
CDH4-38AABY	16rm	1.15	1.38	78	65	66	23.1	998	1000
CDH4-48AABY	25rm	0.727	0.87	100	83	87	26.0	1387	1000
CDH4-53AABY	35rm	0.524	0.625	125	101	106	26.5	1606	1000
KDH4-59AABY	50sm	0.387	0.463	150	121	130	29.2	2161	1000
KDH4-64AABY	70sm	0.268	0.322	185	150	163	32.9	2983	1000
KDH4-68AABY	95sm	0.193	0.232	220	180	201	37.6	4066	500
KDH4-72AABY	120sm	0.153	0.185	250	205	233	39.9	4988	500
KDH4-77AABY	150sm	0.124	0.151	285	230	268	44.6	6161	500
KDH4-80AABY	185sm	0.0991	0.121	319	259	308	50.3	7690	250
KDH4-84AABY	240sm	0.0754	0.0939	366	301	364	56.5	9994	250
KDH4-87AABY	300sm	0.0601	0.0764	415	339	417	62.6	12455	250

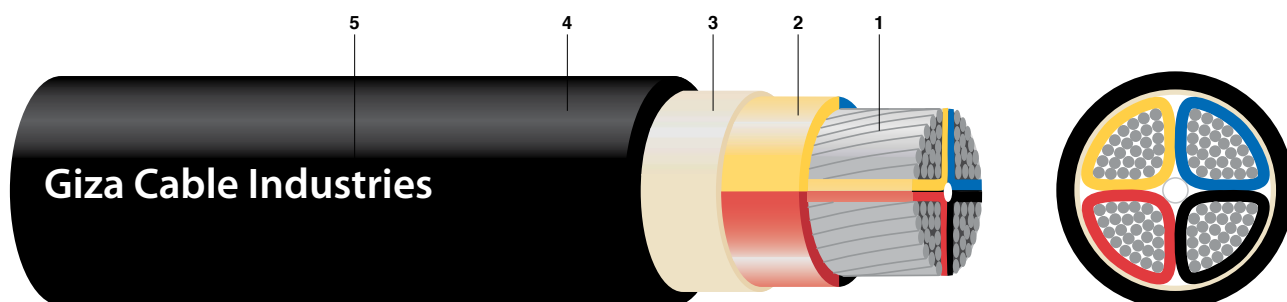
Catalogue No.	Conductors		Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal		Max. DC Resistance at 20° C	Max. AC Resistance at 70° C	Laid in Ground	Laid in Duct	Laid in Free Air	Overall Diameter approx.	Net weight approx.	Standard packing
	(mm ²)		(ohm/km)	(ohm/km)	(Amps.)	(Amps.)	(Amps.)	(mm)	(kg/km)	(m ± 5 %)
Four Core with reduced neutral										
CDHB-107AABY	25rm	16rm	0.727 / 1.15	0.87 / 1.38	100	83	87	25.7	1378	1000
CDHB-110AABY	35rm	16rm	0.524 / 1.15	0.628 / 1.38	125	101	106	26.0	1454	1000
KDHB-112AABY	50sm	25rm	0.387 / 0.727	0.464 / 0.87	150	121	130	30.2	2014	1000
KDHB-115AABY	70sm	35rm	0.268 / 0.524	0.322 / 0.628	185	150	163	33.8	2765	1000
KDHB-117AABY	95sm	50sm	0.193 / 0.387	0.232 / 0.464	220	180	201	38.8	3767	500
KDHB-120AABY	120sm	70sm	0.153 / 0.268	0.185 / 0.322	250	205	233	41.0	4598	500
KDHB-122AABY	150sm	70sm	0.124 / 0.268	0.151 / 0.322	285	230	268	45.5	5619	250
KDHB-125AABY	185sm	95sm	0.0991 / 0.193	0.121 / 0.232	319	259	308	51.8	7097	250
KDHB-127AABY	240sm	120sm	0.0754 / 0.153	0.0939 / 0.185	366	301	364	58.1	9153	250
KDHB-129AABY	300sm	150sm	0.0601 / 0.124	0.0764 / 0.151	415	339	417	64.4	11362	250

re – circular solid conductor

rm – circular stranded conductor

sm – sectoral stranded conductor

UNARMoured CABLES, ALUMINUM CONDUCTORS, XLPE INSULATED AND SHEATHED (0.6/1 KV)



1. Stranded Aluminum Conductor.
2. XLPE Insulation.
3. Poly Propylene Tape.
4. PVC Sheath.
5. Cable Marking.

DESCRIPTION	Multicore cables with aluminum conductors, XLPE insulated and PVC sheathed. Cables rated 0.6/1 KV conform to IEC 60502-1.	
CONSTRUCTION	Conductor	Plain circular or sectoral stranded aluminum conductor to IEC 60228 class 2.
	Insulation	XLPE (cross-linked polyethylene) for 90°C.
	Assembly	Two, three or four insulated cores are laid up and filled with non-hygroscopic material compatible with the insulation.
	Sheath	PVC ST2 to IEC 60502 - 1. Special PVC with flame retardant or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Two cores - red and black. Three cores - red, yellow and blue. Four cores - red, yellow, blue and black.	
APPLICATION	These cables have been designated for general purpose, including underground use where they are not likely to suffer mechanical damage.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement. GC3 reserve the right to alter cable specifications.

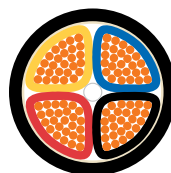
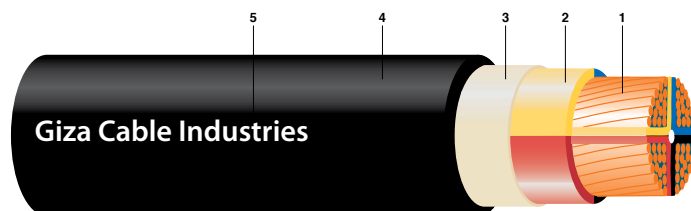
Catalogue No.	Conductors		Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal (mm ²)		Max. DC Resistance at 20° C (ohm/km)	Max. AC Resistance at 90° C (ohm/km)	Laid in Ground (Amps.)	Laid in Duct (Amps.)	Laid in Free Air (Amps.)	Overall Diameter approx. (mm)	Net weight approx. (kg/km)	Standard packing (m ± 5 %)
TWO CORE										
QNH2-38AABY	16rm		1.91	2.45	76	62	68	19.2	432	1000
QNH2-48AABY	25rm		1.20	1.54	99	81	92	22.6	608	1000
QNH2-53AABY	35rm		0.868	1.113	121	96	110	24.9	751	1000
THREE CORE										
QNH3-38AABY	16rm		1.91	2.45	76	62	68	20.2	461	1000
QNH3-48AABY	25rm		1.20	1.54	99	81	92	21.0	551	1000
QNH3-53AABY	35rm		0.868	1.113	121	96	110	23.9	665	1000
RNH3-59AABY	50sm		0.641	0.822	145	116	136	24.1	708	1000
RNH3-64AABY	70sm		0.443	0.569	178	142	171	27.3	960	1000
RNH3-68AABY	95sm		0.320	0.411	214	171	211	30.6	1259	1000
RNH3-72AABY	120sm		0.253	0.325	245	195	246	33.9	1568	1000
RNH3-77AABY	150sm		0.206	0.265	275	220	282	38.0	1976	1000
RNH3-80AABY	185sm		0.164	0.212	310	250	326	41.9	2380	500
RNH3-83AABY	240sm		0.125	0.163	360	292	390	47.0	3007	500
RNH3-87AABY	300sm		0.100	0.131	410	332	450	55.0	3705	500
FOUR CORE										
QNH4-38AABY	16rm		1.91	2.45	76	62	68	21.9	542	1000
QNH4-48AABY	25rm		1.20	1.54	99	81	92	23.7	689	1000
QNH4-53AABY	35rm		0.868	1.113	121	96	110	23.9	770	1000
RNH4-59AABY	50sm		0.641	0.822	145	116	136	27.3	903	1000
RNH4-64AABY	70sm		0.443	0.569	178	142	171	31.2	1230	1000
RNH4-68AABY	95sm		0.320	0.411	214	171	211	34.9	1591	1000
RNH4-72AABY	120sm		0.253	0.325	245	195	246	38.8	1995	1000
RNH4-77AABY	150sm		0.206	0.265	275	220	282	43.3	2446	500
RNH4-80AABY	185sm		0.164	0.212	310	250	326	48.2	3040	500
RNH4-83AABY	240sm		0.125	0.163	360	292	390	54.0	3943	500
RNH4-87AABY	300sm		0.100	0.131	410	332	450	63.1	4793	250

Catalogue No.	Conductors		Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal (mm ²)		Max. DC Resistance at 20° C (ohm/km)	Max. AC Resistance at 90° C (ohm/km)	Laid in Ground (Amps.)	Laid in Duct (Amps.)	Laid in Free Air (Amps.)	Overall Diameter approx. (mm)	Net weight approx. (kg/km)	Standard packing (m ± 5 %)
Four Core with reduced neutral										
QNHb-107AABY	25rm	16rm	1.20 / 1.91	1.54 / 2.45	99	81	92	23.0	665	1000
QNHb-110AABY	35rm	16rm	0.868 / 1.91	1.113 / 2.45	121	96	110	25.2	736	1000
RNHb-112AABY	50sm	25rm	0.641 / 1.20	0.822 / 1.54	145	116	136	26.9	879	1000
RNHb-115AABY	70sm	35rm	0.443 / 0.868	0.569 / 1.113	178	142	171	30.8	1192	1000
RNHb-117AABY	95sm	50sm	0.320 / 0.641	0.411 / 0.822	214	171	211	34.1	1549	1000
RNHb-120AABY	120sm	70sm	0.253 / 0.443	0.325 / 0.569	245	195	246	37.5	1929	1000
RNHb-122AABY	150sm	70sm	0.206 / 0.443	0.265 / 0.569	275	220	282	41.9	2389	500
RNHb-125AABY	185sm	95sm	0.164 / 0.320	0.212 / 0.411	310	250	326	50.3	2940	500
RNHb-127AABY	240sm	120sm	0.125 / 0.253	0.163 / 0.325	360	292	390	56.6	3705	500
RNHb-129AABY	300sm	150sm	0.100 / 0.206	0.131 / 0.265	410	332	450	62.9	3985	250

rm – circular stranded conductor

sm – sectoral stranded conductor

UNARMoured CABLES, COPPER CONDUCTORS, XLPE INSULATED AND SHEATHED (0.6/1 KV)



1. Stranded Copper Conductor.
2. XLPE Insulation.
3. Poly Propylene Tape.
4. PVC Sheath.
5. Cable Marking.

DESCRIPTION	Multicore cables with copper conductors, XLPE insulated and PVC sheathed. Cables are rated 0.6/1 KV and conform to IEC 60502 - 1.	
CONSTRUCTION	Conductor	Plain circular or sector, solid or stranded, copper conductors, per IEC 60228 class 1 and 2.
	Insulation	XLPE (cross-linked polyethylene) for 90°C.
	Assembly	Two, three or four insulated cores are laid up and filled with non-hygroscopic material compatible with the insulation.
	Sheath	PVC type ST2 to IEC 60502 - 1. color black. Special PVC with flame retardant or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Two cores - red and black. Three cores - red, yellow and blue. Four cores - red, yellow, blue and black.	
APPLICATION	These cables have been designated for general purpose, including underground use where they are not likely to suffer mechanical damage.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement, GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal (mm ²)	Max. DC Resistance at 20° C (ohm/km)	Max. AC Resistance at 90° C (ohm/km)	Laid in Ground (Amps.)	Laid in Duct (Amps.)	Laid in Free Air (Amps.)	Overall Diameter approx. (mm)	Net weight approx. (kg/km)	Standard packing (m ± 5 %)
TWO CORE									
CNH2-19AABY	1.5re	12.1	15.4	27	22	22	11.8	124	1000
CNH2-19AABY	1.5rm	12.1	15.4	27	22	22	12.1	127	1000
ANH2-23AABY	2.5re	7.41	9.45	35	29	38	12.6	148	1000
CNH2-26AABY	2.5rm	7.41	9.45	35	29	38	13.0	166	1000
CNH2-31AABY	4rm	4.61	5.88	45	37	48	14.0	214	1000
CNH2-33AABY	6rm	3.08	3.93	56	46	67	15.1	276	1000
CNH2-35AABY	10rm	1.83	2.33	76	62	88	17.0	390	1000
CNH2-38AABY	16rm	1.15	1.47	98	80	118	19.0	551	1000
CNH2-48AABY	25rm	0.727	0.927	128	105	142	22.4	827	1000
CNH2-53AABY	35rm	0.524	0.669	157	125	175	24.6	1074	1000
THREE CORE									
ANH3-16AABY	1.5re	12.1	15.4	27	22	22	12.2	142	1000
CNH3-19AABY	1.5rm	12.1	15.4	27	22	22	12.6	143	1000
ANH3-23AABY	2.5re	7.41	9.45	35	29	38	13.0	181	1000
CNH3-26AABY	2.5rm	7.41	9.45	35	29	38	13.5	193	1000
CNH3-31AABY	4rm	4.61	5.88	45	37	48	14.6	257	1000
CNH3-33AABY	6rm	3.08	3.93	56	46	67	15.8	333	1000
CNH3-35AABY	10rm	1.83	2.33	76	62	88	17.8	481	1000
CNH3-38AABY	16rm	1.15	1.47	98	80	118	20.0	689	1000

Catalogue No.	Conductors	Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal	Max. DC Resistance at 20° C	Max. AC Resistance at 90° C	Laid in Ground	Laid in Duct	Laid in Free Air	Overall Diameter approx.	Net weight approx.	Standard packing
	(mm ²)	(ohm/km)	(ohm/km)	(Amps.)	(Amps.)	(Amps.)	(mm)	(kg/km)	(m ± 5 %)
THREE CORE									
CNH3-48AABY	25rm	0.727	0.927	128	105	142	23.6	1045	1000
CNH3-53AABY	35rm	0.524	0.669	157	125	175	21.0	1154	1000
KNH3-59AABY	50sm	0.387	0.494	187	150	220	24.1	1530	1000
KNH3-64AABY	70sm	0.268	0.343	229	183	272	27.3	2147	1000
KNH3-68AABY	95sm	0.193	0.248	276	220	318	30.6	2907	1000
KNH3-72AABY	120sm	0.153	0.197	313	252	365	33.9	3629	500
KNH3-77AABY	150sm	0.124	0.160	350	285	420	38.0	4494	500
KNH3-80AABY	185sm	0.0991	0.129	395	322	500	41.9	5586	500
KNH3-84AABY	240sm	0.0754	0.0998	460	375	571	47.0	7268	250
KNH3-87AABY	300sm	0.0601	0.0812	520	422	665	55.0	8788	250
FOUR CORE									
ANH4-16AABY	1.5re	12.1	15.4	27	22	22	12.9	238	1000
CNH4-19AABY	1.5rm	12.1	15.4	27	22	22	13.3	242	1000
ANH4-23AABY	2.5re	7.41	9.45	35	29	38	13.9	290	1000
CNH4-26AABY	2.5rm	7.41	9.45	35	29	38	14.4	299	1000
CNH4-31AABY	4rm	4.61	5.88	45	37	48	15.7	380	1000
CNH4-33AABY	6rm	3.08	3.93	56	46	67	16.8	485	1000
CNH4-35AABY	10rm	1.83	2.33	76	62	88	17.1	679	1000
CNH4-38AABY	16rm	1.15	1.47	98	80	118	19.2	945	1000
CNH4-48AABY	25rm	0.727	0.927	128	105	142	21.6	1392	1000
CNH4-53AABY	35rm	0.524	0.669	157	125	175	23.8	1511	1000
CNH4-59AABY	50sm	0.387	0.494	187	150	220	26.2	2845	1000
CNH4-64AABY	70sm	0.268	0.343	229	183	272	29.3	3838	1000
CNH4-68AABY	95sm	0.193	0.248	276	220	318	33.4	4874	500
CNH4-72AABY	120sm	0.153	0.197	313	252	365	37.4	6018	500
CNH4-77AABY	150sm	0.124	0.16	350	285	420	40.2	7348	500
CNH4-80AABY	185sm	0.0991	0.129	395	322	500	44.7	9643	250
CNH4-83AABY	240sm	0.0754	0.0998	460	375	571	50.8	12010	250
CNH4-87AABY	300sm	0.0601	0.0812	520	422	665	63.1	15347	250

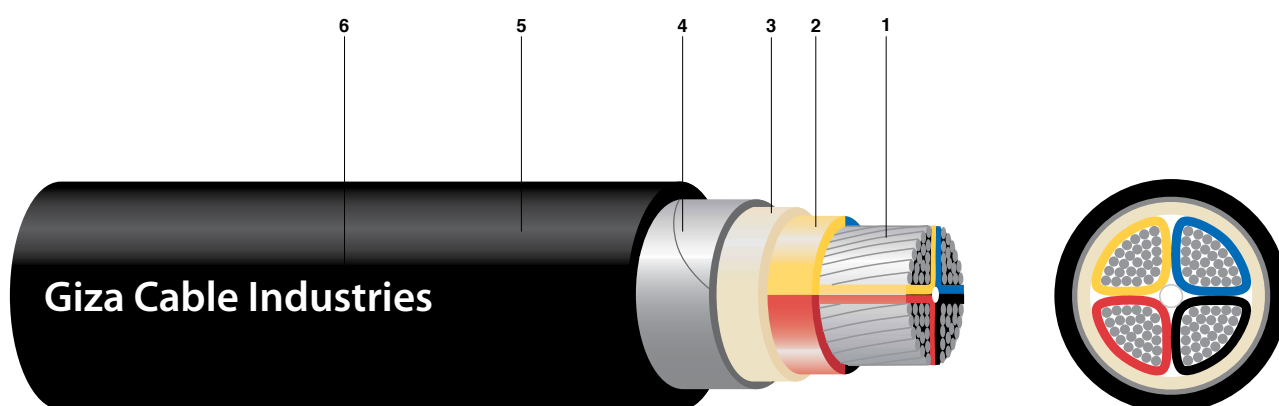
Catalogue No.	Conductors		Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal		Max. DC Resistance at 20° C	Max. AC Resistance at 90° C	Laid in Ground	Laid in Duct	Laid in Free Air	Overall Diameter approx.	Net weight approx.	Standard packing
	(mm ²)		(ohm/km)	(ohm/km)	(Amps.)	(Amps.)	(Amps.)	(mm)	(kg/km)	(m ± 5 %)
Four Core with reduced neutral										
CNHB-107AABY	25rm	16rm	0.727 / 1.15	0.927 / 1.47	128	105	142	21.4	990	1000
CNHB-110AABY	35rm	16rm	0.524 / 1.15	0.669 / 1.476	187	150	220	23.5	1390	1000
KNHB-112AABY	50sm	25rm	0.387 / 0.727	0.494 / 0.927	157	125	175	25.8	1800	1000
KNHB-115AABY	70sm	35rm	0.268 / 0.524	0.343 / 0.669	229	183	272	29.7	2520	1000
KNHB-117AABY	95sm	50sm	0.193 / 0.387	0.248 / 0.494	276	220	318	33.5	3400	500
KNHB-120AABY	120sm	70sm	0.153 / 0.268	0.197 / 0.343	313	252	365	37.5	4350	500
KNHB-122AABY	150sm	70sm	0.124 / 0.268	0.16 / 0.343	350	285	420	41.1	5250	250
KNHB-125AABY	185sm	95sm	0.0991 / 0.193	0.129 / 0.248	395	322	500	46.0	6600	250
KNHB-127AABY	240sm	120sm	0.0754 / 0.153	0.0998 / 0.197	460	375	571	51.2	8500	250
KNHB-129AABY	300sm	150sm	0.0601 / 0.124	0.0812 / 0.16	520	422	665	56.5	10600	250

re – circular solid conductor

rm – circular stranded conductor

sm – sectoral stranded conductor

STEEL TAPE ARMoured CABLES, ALUMINUM CONDUCTORS, PVC INSULATED AND SHEATHED (0.6/1 KV)



1. Stranded Aluminum Conductor.
2. PVC Insulation (PVC/A).
3. Extruded Bedding.
4. Steel Tape Armouring.
5. PVC Sheath.
6. Cable Marking.

DESCRIPTION	Multicore cables, with aluminum conductors, PVC insulated, steel tape armoured and PVC sheath. Cables are rated 0.6/1 KV and conform to IEC 60502 - 1.	
CONSTRUCTION	Conductor	Plain stranded circular or sectoral, aluminum conductors, per IEC 60228 class 2.
	Insulation	PVC/A insulated for 70°C.
	Assembly & Bedding	Two, three or four insulated cores are laid up, filled with non-hygroscopic material compatible with the insulation and covered with layer of PVC bedding.
	Armour	Two Steel Tapes are applied helically over the PVC bedding.
	Sheath	PVC to IEC 60502 - 1, color black. Special PVC with flame retardant or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Two cores - red and black. Three cores - red, yellow and blue. Four cores - red, yellow, blue and black.	
APPLICATION	These cables are designed for underground burial where there is a risk of mechanical damage.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement. GC3 reserve the right to alter cable specifications.

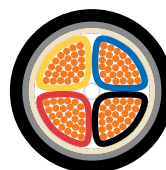
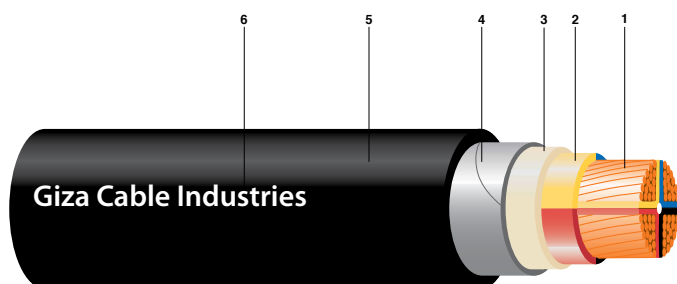
Catalogue No.	Conductors	Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal	Max. DC Resistance at 20° C	Max. AC Resistance at 70° C	Laid in Ground	Laid in Duct	Laid in Free Air	Overall Diameter approx.	Net weight approx.	Standard packing
	(mm ²)	(ohm/km)	(ohm/km)	(Amps.)	(Amps.)	(Amps.)	(mm)	(kg/km)	(m ± 5 %)
TWO CORE									
QDM2-38AABY	16rm	1.91	2.29	70	55	64	22.4	722	1000
QDM2-48AABY	25rm	1.20	1.44	90	71	66	25.2	922	1000
QDM2-53AABY	35rm	0.868	1.04	112	90	78	27.2	1059	1000
THREE CORE									
QDM3-38AABY	16rm	1.91	2.29	70	55	64	23.9	798	1000
QDM3-48AABY	25rm	1.20	1.44	90	71	66	26.6	1031	1000
QDM3-53AABY	35rm	0.868	1.04	112	90	78	26.4	960	1000
RDM3-59AABY	50sm	0.641	0.771	133	101	121	30.1	1188	500
RDM3-64AABY	70sm	0.443	0.533	161	131	152	33.4	1511	500
RDM3-68AABY	95sm	0.320	0.385	19	155	184	39.5	2351	500
RDM3-72AABY	120sm	0.253	0.305	220	179	215	42.4	2708	250
RDM3-77AABY	150sm	0.206	0.249	250	202	247	47.0	3197	250
RDM3-80AABY	185sm	0.164	0.199	280	232	285	51.0	3857	250
RDM3-84AABY	240sm	0.125	0.151	327	260	346	56.3	4731	250
RDM3-87AABY	300sm	0.100	0.123	360	310	399	61.6	5634	250
FOUR CORE									
QDM4-38AABY	16rm	1.91	2.29	70	55	64	25.9	922	1000
QDM4-48AABY	25rm	1.20	1.44	90	71	66	28.8	1192	1000
QDM4-53AABY	35rm	0.868	1.04	112	90	78	29.5	1169	500
RDM4-59AABY	50sm	0.641	0.771	133	101	121	34.0	1530	500
RDM4-64AABY	70sm	0.443	0.533	161	131	152	39.5	2285	500
RDM4-68AABY	95sm	0.320	0.385	19	155	184	44.4	2945	500
RDM4-72AABY	120sm	0.253	0.305	220	179	215	47.2	3349	250
RDM4-77AABY	150sm	0.206	0.249	250	202	247	51.6	4028	250
RDM4-80AABY	185sm	0.164	0.199	280	232	285	57.3	4912	250
RDM4-84AABY	240sm	0.125	0.151	327	260	346	64.3	6052	250
RDM4-87AABY	300sm	0.100	0.123	360	310	399	70.8	7201	250

Catalogue No.	Conductors		Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal		Max. DC Resistance at 20° C	Max. AC Resistance at 70° C	Laid in Ground	Laid in Duct	Laid in Free Air	Overall Diameter approx.	Net weight approx.	Standard packing
	(mm ²)		(ohm/km)	(ohm/km)	(Amps.)	(Amps.)	(Amps.)	(mm)	(kg/km)	(m ± 5 %)
Four Core with reduced neutral										
QDMB-107AABY	25rm	16rm	1.20 / 1.91	1.44 / 2.29	83	67	76	28.1	1154	1000
QDMB-110AABY	35rm	16rm	0.868 / 1.91	1.04 / 2.29	113	89	101	29.3	1116	1000
QDMB-112AABY	50sm	25rm	0.641 / 1.20	0.771 / 1.44	133	101	121	33.4	1435	1000
RDMB-115AABY	70sm	35rm	0.443 / 0.868	0.533 / 1.04	161	131	152	37.3	1834	10000
RDMB-117AABY	95sm	50sm	0.320 / 0.641	0.385 / 0.771	19	155	184	43.5	2741	1000
RDMB-120AABY	120sm	70sm	0.253 / 0.443	0.305 / 0.533	220	179	215	46.6	3344	500
RDMB-122AABY	150sm	70sm	0.206 / 0.443	0.249 / 0.533	250	202	247	51.1	3700	500
RDMB-125AABY	185sm	95sm	0.164 / 0.320	0.199 / 0.385	280	232	285	57.4	4593	500
RDMB-127AABY	240sm	120sm	0.125 / 0.253	0.151 / 0.305	327	260	346	62.4	5838	250
RDMB-129AABY	300sm	150sm	0.100 / 0.206	0.123 / 0.249	360	310	399	68.0	7002	250

rm – circular stranded conductor

sm – sectoral stranded conductor

STEEL TAPE ARMoured CABLES, COPPER CONDUCTORS, PVC INSULATED AND SHEATHED (0.6/1 KV)



1. Stranded Copper Conductor.
2. PVC Insulation (PVC/A).
3. Extruded Bedding.
4. Steel Tape Armouring.
5. PVC Sheath.
6. Cable Marking.

DESCRIPTION	Multicore cables, with copper conductors, PVC insulated, steel tape armouring and PVC sheath. Cables are rated 0.6/1 KV and conform to IEC 60502 - 1.	
CONSTRUCTION	Conductor	Conductor Plain stranded or sectoral copper conductors per IEC 60228 class 2.
	Insulation	PVC/A insulated for 70°C.
	Assembly & Bedding	Two, three or four insulated cores are laid up, filled with non-hygroscopic material compatible with the insulation and covered with layer of PVC bedding.
	Armour	Two Steel Tapes are applied helically over the PVC bedding.
	Sheath	PVC to IEC 60502 - 1, color black. Special PVC with flame retardant or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Two cores - red and black. Three cores - red, yellow and blue. Four cores - red, yellow, blue and black.	
APPLICATION	These cables are designed for underground burial where there is a risk of mechanical damage.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement. GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal (mm ²)	Max. DC Resistance at 20° C (ohm/km)	Max. AC Resistance at 70° C (ohm/km)	Laid in Ground (Amps.)	Laid in Duct (Amps.)	Laid in Free Air (Amps.)	Overall Diameter approx. (mm)	Net weight approx. (kg/km)	Standard packing (m ± 5 %)
TWO CORE									
CDM2-19AABY	1.5rm	12.1	14.5	21	15	16	14.2	318	1000
CDM2-26AABY	2.5rm	7.41	8.87	27	20	22	15.0	361	1000
CDM2-31AABY	4rm	4.61	5.52	36	25	29	17.0	470	1000
CDM2-33AABY	6rm	3.08	3.69	45	32	37	18.8	494	1000
CDM2-35AABY	10rm	1.83	2.19	60	42	50	20.6	632	1000
CDM2-38AABY	16rm	1.15	1.38	78	55	66	22.6	817	1000
CDM2-48AABY	25rm	0.727	0.87	100	70	87	24.8	1140	1000
CDM2-53AABY	35rm	0.524	0.628	125	85	106	27.0	1463	1000
THREE CORE									
CDM3-19AABY	1.5rm	12.1	14.5	21	15	16	14.7	328	1000
CDM3-26AABY	2.5rm	7.41	8.87	27	20	22	15.6	404	1000
CDM3-31AABY	4rm	4.61	5.52	36	25	29	17.7	527	1000
CDM3-33AABY	6rm	3.08	3.69	45	32	37	19.6	580	1000
CDM3-35AABY	10rm	1.83	2.19	60	42	50	21.6	822	1000
CDM3-38AABY	16rm	1.15	1.38	78	55	66	23.7	979	1000

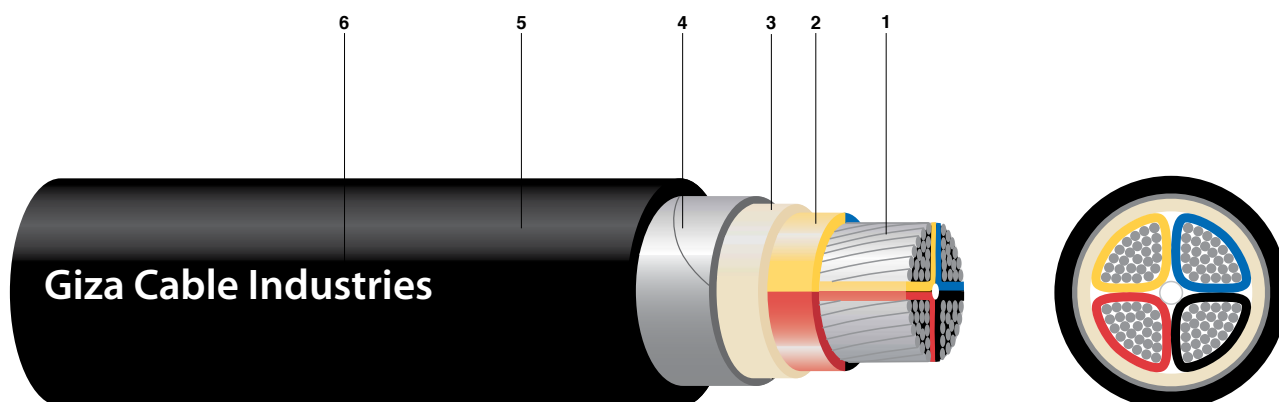
Catalogue No.	Conductors	Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal	Max. DC Resist- ance at 20° C	Max. AC Resistance at 70° C	Laid in Ground	Laid in Duct	Laid in Free Air	Overall Diameter approx.	Net weight approx.	Standard packing
	(mm ²)	(ohm/km)	(ohm/km)	(Amps.)	(Amps.)	(Amps.)	(mm)	(kg/km)	(m ± 5 %)
THREE CORE									
CDM3-48AABY	25rm	0.727	0.87	100	70	87	26.3	1463	1000
CDM3-53AABY	35rm	0.524	0.628	125	85	106	26.4	1601	1000
KDM3-59AABY	50sm	0.387	0.464	147	102	132	30.1	2005	1000
KDM3-64AABY	70sm	0.268	0.322	180	126	165	33.4	2684	1000
KDM3-68AABY	95sm	0.193	0.232	215	155	205	39.5	3981	500
KDM3-72AABY	120sm	0.153	0.185	245	180	235	42.4	4764	500
KDM3-77AABY	150sm	0.124	0.151	275	205	270	47.0	5938	500
KDM3-80AABY	185sm	0.0991	0.121	308	232	310	51.0	7139	250
KDM3-84AABY	240sm	0.0754	0.0939	350	270	365	56.3	9049	250
KDM3-87AABY	300sm	0.0601	0.064	390	310	420	62.4	11120	250
FOUR CORE									
CDM4-19AABY	1.5rm	12.1	14.5	21	15	16	15.6	390	1000
CDM4-26AABY	2.5rm	7.41	8.87	27	20	22	16.5	456	1000
CDM4-31AABY	4rm	4.61	5.52	36	25	29	18.9	608	1000
CDM4-33AABY	6rm	3.08	3.69	45	32	37	21.0	732	1000
CDM4-35AABY	10rm	1.83	2.19	60	42	50	25.6	979	1000
CDM4-38AABY	16rm	1.15	1.3900	89	71	82	28.6	1188	1000
CDM4-48AABY	25rm	0.727	0.87	100	70	87	29.7	1777	1000
CDM4-53AABY	35rm	0.524	0.628	125	85	106	34.0	2033	500
KDM4-59AABY	50sm	0.387	0.464	147	102	132	39.0	2651	500
KDM4-64AABY	70sm	0.268	0.322	180	126	165	44.4	3943	500
KDM4-68AABY	95sm	0.193	0.232	215	155	205	46.7	5197	500
KDH4-72AABY	120sm	0.153	0.185	245	180	235	51.6	6232	250
KDH4-77AABY	150sm	0.124	0.151	275	205	270	57.8	7524	250
KDH4-80AABY	185sm	0.0991	0.121	308	232	310	63.5	9272	250
KDH4-84AABY	240sm	0.0754	0.0939	350	270	365	69.6	11794	250
KDH4-87AABY	300sm	0.0601	0.0764	390	310	420	69.6	14564	250

Catalogue No.	Conductors		Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal		Max. DC Resistance at 20° C	Max. AC Resistance at 70° C	Laid in Ground	Laid in Duct	Laid in Free Air	Overall Diameter approx.	Net weight approx.	Standard packing
	(mm ²)		(ohm/km)	(ohm/km)	(Amps.)	(Amps.)	(Amps.)	(mm)	(kg/km)	(m ± 5 %)
	Four Core with reduced neutral									
CDMB-107AABY	25rm	16rm	0.727 / 1.15	0.87 / 1.38	100	70	87	28.8	1587	1000
CDMB-110AABY	3rm	16rm	0.524 / 1.15	0.628 / 1.38	125	85	106	29.5	1876	500
KDMB-112AABY	50sm	25sm	0.387 / 0.727	0.464 / 0.87	147	102	132	33.8	2489	500
KDMB-115AABY	70sm	35rm	0.268 / 0.524	0.322 / 0.628	180	126	165	37.6	3282	500
KDMB-117AABY	95sm	50sm	0.193 / 0.387	0.232 / 0.464	215	155	205	43.8	4769	250
KDMB-120AABY	120sm	70sm	0.153 / 0.268	0.185 / 0.322	245	180	235	46.3	5733	250
KDMB-122AABY	150sm	70sm	0.124 / 0.268	0.151 / 0.322	275	205	270	50.9	6845	250
KDMB-125AABY	185sm	95sm	0.0991 / 0.193	0.121 / 0.232	308	232	310	57.2	8507	250
KDMB-127AABY	240sm	120sm	0.0754 / 0.153	0.084 / 0.185	350	270	365	63.9	10802	250
KDMB-129AABY	300sm	150sm	0.0601 / 0.124	0.0764 / 0.151	390	310	420	70.4	13224	250

rm – circular stranded conductor

sm – sectoral stranded conductor

STEEL TAPE ARMoured CABLES, ALUMINUM CONDUCTORS, XLPE INSULATED AND SHEATHED (0.6/1 KV)



1. Sectoral Aluminum Conductor.
2. XLPE Insulation.
3. Extruded Bedding.
4. Steel Tape Armouring.
5. PVC Sheath.
6. Cable Marking

DESCRIPTION	Multicore cables, with aluminum conductor, XLPE insulated, steel tape armoured and PVC sheath. Cables are rated 0.6/1 KV and conform to IEC 60502 - 1.	
CONSTRUCTION	Conductor	Plain stranded circular or sectoral aluminum conductors, per IEC 60228 class 2.
	Insulation	XLPE (cross-linked polyethylene) insulation for 90°C.
	Assembly & Bedding	Two, three or four insulated conductors are laid up, filled with non-hygroscopic material compatible with the insulation and covered with layer of PVC bedding.
	Armour	Two Steel Tapes are applied helically over the PVC bedding.
	Sheath	PVC type ST2 to IEC 60502 - 1, color black. Special PVC with flame retardant or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Two cores - red and black. Three cores - red, yellow and blue. Four cores - red, yellow, blue and black.	
APPLICATION	These cables are designed for underground burial where there is a risk of mechanical damage.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement. GC3 reserve the right to alter cable specifications.

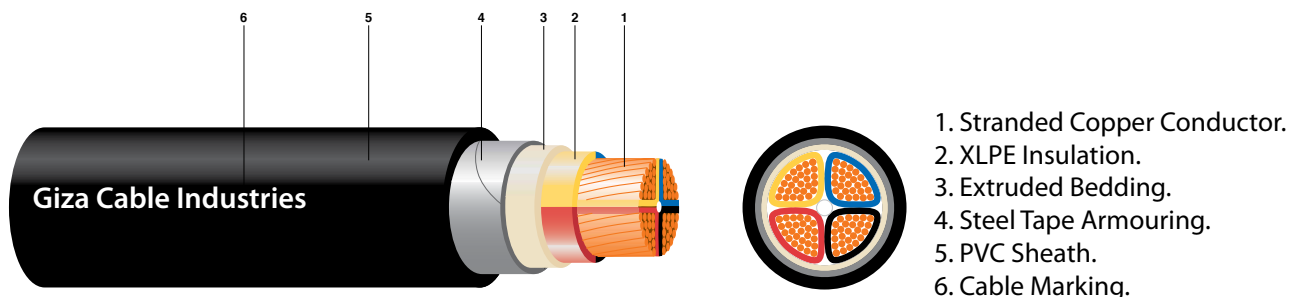
Catalogue No.	Conductors	Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal	Max. DC Resistance at 20° C	Max. AC Resistance at 90° C	Laid in Ground	Laid in Duct	Laid in Free Air	Overall Diameter approx.	Net weight approx.	Standard packing
	(mm²)	(ohm/km)	(ohm/km)	(Amps.)	(Amps.)	(Amps.)	(mm)	(kg/km)	(m ± 5 %)
TWO CORE									
QNL2-38AABY	16rm	1.91	2.45	76	53	69	21.4	613	1000
QNL2-48AABY	25rm	1.20	1.54	99	70	93	24.0	793	1000
QNL2-53AABY	35rm	0.868	1.113	122	83	115	26.3	950	1000
THREE CORE									
QNL3-38AABY	16rm	1.91	2.45	76	53	69	22.4	608	1000
QNL3-48AABY	25rm	1.2	1.54	99	70	93	25.0	893	1000
QNL3-53AABY	35rm	0.868	1.113	122	83	115	25.7	855	1000
RNL3-59AABY	50sm	0.641	0.822	146	100	136	29.4	1078	500
RNL3-64AABY	70sm	0.443	0.569	178	125	171	32.6	1368	500
RNL3-68AABY	95sm	0.320	0.411	213	152	211	37.8	2071	500
RNL3-72AABY	120sm	0.253	0.325	242	176	250	41.8	2461	250
RNL3-77AABY	150sm	0.206	0.265	270	200	282	45.3	2893	250
RNL3-80AABY	185sm	0.164	0.212	305	230	326	49.8	3482	250
RNL3-84AABY	240sm	0.125	0.163	352	272	390	55.4	4294	250
RNL3-87AABY	300sm	0.1	0.131	400	310	450	60.5	5083	250
FOUR CORE									
QNL4-38AABY	16rm	1.91	2.45	76	53	69	23.8	784	1000
QNL4-48AABY	25rm	1.20	1.54	99	70	93	27.2	1026	1000
QNL4-53AABY	35rm	0.868	1.113	122	83	115	28.6	1045	500
RNL4-59AABY	50sm	0.641	0.822	146	100	136	33.0	1340	500
RNL4-64AABY	70sm	0.443	0.569	178	125	171	36.8	1710	500
RNL4-68AABY	95sm	0.320	0.411	213	152	211	42.6	2565	500
RNL4-72AABY	120sm	0.253	0.325	242	176	250	45.3	3002	250
RNL4-77AABY	150sm	0.206	0.265	270	200	282	50.5	3629	250
RNL4-80AABY	185sm	0.164	0.212	305	230	326	56.3	4370	250
RNL4-84AABY	240sm	0.125	0.163	352	272	390	62.8	5434	250
RNL4-87AABY	300sm	0.100	0.131	400	310	450	68.9	6460	250

Catalogue No.	Conductors		Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal		Max. DC Resistance at 20° C	Max. AC Resistance at 90° C	Laid in Ground	Laid in Duct	Laid in Free Air	Overall Diameter approx.	Net weight approx.	Standard packing
	(mm ²)		(ohm/km)	(ohm/km)	(Amps.)	(Amps.)	(Amps.)	(mm)	(kg/km)	(m ± 5 %)
	Four Core with reduced neutral									
QNLB-107AABY	25rm	16rm	1.20 / 1.91	1.44 / 2.45	99	70	93	26.4	1178	1000
QNLB-110AABY	35rm	16rm	0.868 / 1.91	1.113 / 2.45	122	83	115	27.9	998	1000
RNLB-112AABY	50sm	25rm	0.641 / 1.20	0.822 / 1.54	146	100	136	32.7	1273	1000
RNLB-115AABY	70sm	35rm	0.443 / 0.868	0.569 / 1.113	178	125	171	36.6	1634	10000
RNLB-117AABY	95sm	50sm	0.320 / 0.641	0.411 / 0.822	213	152	211	42.4	2470	1000
RNLB-120AABY	120sm	70sm	0.253 / 0.443	0.325 / 0.569	242	176	250	44.2	2964	500
RNLB-122AABY	150sm	70sm	0.206 / 0.443	0.265 / 0.569	270	200	282	49.9	3373	500
RNLB-125AABY	185sm	95sm	0.164 / 0.320	0.212 / 0.385	305	230	326	55.9	4180	500
RNLB-127AABY	240sm	120sm	0.125 / 0.253	0.163 / 0.305	352	272	390	62.2	5064	250
RNLB-129AABY	300sm	150sm	0.1 / 0.206	0.131 / 0.249	400	310	450	68.4	6118	250

rm – circular stranded conductor

sm – sectoral stranded conductor

STEEL TAPE ARMoured CABLES, COPPER CONDUCTORS, XLPE INSULATED AND SHEATHED (0.6/1 KV)



DESCRIPTION	Multicore cable with copper conductor XLPE insulated, steel tape armoured and PVC sheath. Cables are rated 0.6/1 KV conform to IEC 60502 - 1.	
CONSTRUCTION	Conductor	Plain stranded circular or sectoral copper conductors per IEC 60228 class 2.
	Insulation	XLPE (cross-linked polyethylene) insulation for 90°C.
	Assembly & Bedding	Two, three or four insulated conductors are laid up, filled with non-hygroscopic material compatible with the insulation and covered with layer of PVC bedding.
	Armour	Two steel tapes are applied helically over PVC bedding.
	Sheath	PVC type ST2 to IEC 60502 - 1, color black. Special PVC with flame retardant or anti-ter-mite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Two cores - red and black. Three cores - red, yellow and blue. Four cores - red, yellow, blue and black.	
APPLICATION	These cables are designed for underground burial where there is a risk of mechanical damage.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement, GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal (mm ²)	Max. DC Resistance at 20° C (ohm/km)	Max. AC Resistance at 90° C (ohm/km)	Laid in Ground (Amps.)	Laid in Duct (Amps.)	Laid in Free Air (Amps.)	Overall Diameter approx. (mm)	Net weight approx. (kg/km)	Standard packing (m ± 5 %)
TWO CORE									
CNM2-19AABY	1.5rm	12.1	15.4	-	18	22	13.8	295	1000
CNM2-26AABY	2.5rm	7.41	9.45	-	24	29	14.6	337	1000
CNM2-31AABY	4rm	4.61	5.88	46	31	38	15.6	385	1000
CNM2-33AABY	6rm	3.08	3.93	57	39	48	17.3	437	1000
CNM2-35AABY	10rm	1.83	2.33	76	52	67	19.2	575	1000
CNM2-38AABY	16rm	1.15	1.47	98	68	88	21.3	722	1000
CNM2-48AABY	25rm	0.727	0.927	128	90	118	24.6	1017	1000
CNM2-53AABY	35rm	0.524	0.669	158	107	142	25.6	1354	1000
THREE CORE									
CNM3-19AABY	1.5rm	12.1	15.4	-	18	22	14.3	318	1000
CNM3-26AABY	2.5rm	7.41	9.45	-	24	29	15.1	371	1000
CNM3-31AABY	4rm	4.61	5.88	46	31	38	16.2	447	1000
CNM3-33AABY	6rm	3.08	3.93	57	39	48	18.1	551	1000
CNM3-35AABY	10rm	1.83	2.33	76	52	67	20.1	741	1000
CNM3-38AABY	16rm	1.15	1.47	98	68	88	22.2	960	1000
CNM3-48AABY	25rm	0.727	0.927	128	90	118	25.9	1330	1000

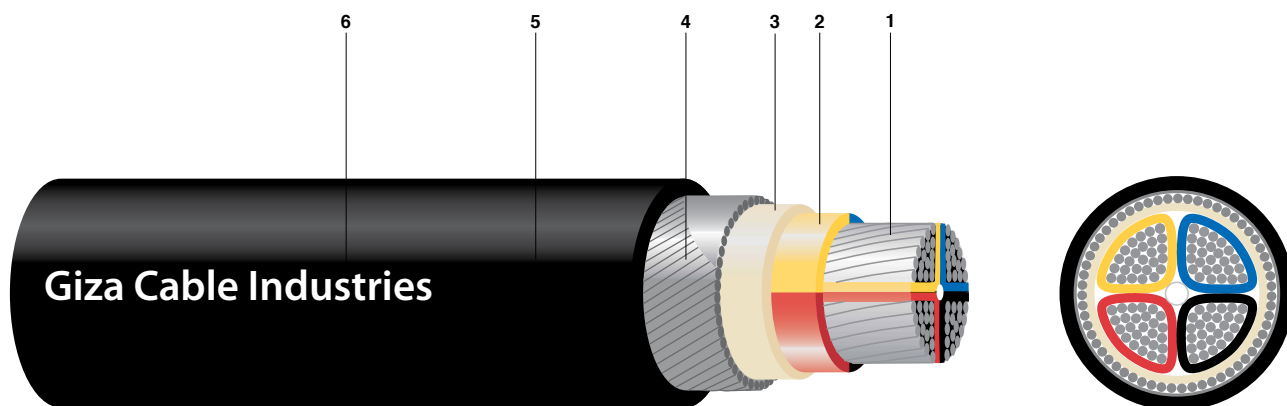
Catalogue No.	Conductors	Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal	Max. DC Resistance at 20° C	Max. AC Resistance at 90° C	Laid in Ground	Laid in Duct	Laid in free air	Overall Diameter approx.	Net weight approx.	Standard packing
	(mm ²)	(ohm/km)	(ohm/km)	(Amps.)	(Amps.)	(Amps.)	(mm)	(kg/km)	(m ± 5 %)
THREE CORE									
CNM3-53AABY	35rm	0.524	0.669	158	107	142	25.2	1482	1000
KNM3-59AABY	50sm	0.387	0.494	188	129	175	29.4	1929	1000
KNM3-64AABY	70sm	0.268	0.343	229	161	220	31.7	2565	1000
KNM3-68AABY	95sm	0.193	0.248	275	196	272	37.8	3781	500
KNM3-72AABY	120sm	0.153	0.197	310	226	316	41.8	4589	500
KNM3-77AABY	150sm	0.124	0.16	346	258	363	45.0	5591	500
KNM3-80AABY	185sm	0.0991	0.129	387	300	420	49.8	6774	250
KNM3-84AABY	240sm	0.0754	0.0998	445	350	500	55.3	8617	250
KNM3-87AABY	300sm	0.0601	0.0812	500	400	570	60.5	10526	250
FOUR CORE									
CNM4-19AABY	1.5rm	12.1	15.4	30	26	24	15.1	356	1000
CNM4-26AABY	2.5rm	7.41	9.45	40	33	35	16.0	418	1000
CNM4-31AABY	4rm	4.61	5.88	52	46	46	17.3	513	1000
CNM4-33AABY	6rm	3.08	3.93	66	52	56	19.3	632	1000
CNM4-35AABY	10rm	1.83	2.33	86	69	76	21.5	860	1000
CNM4-38AABY	16rm	1.15	1.47	111	86	99	23.9	1140	1000
CNM4-48AABY	25rm	0.727	0.927	128	90	118	27.8	1644	1000
CNM4-53AABY	35rm	0.524	0.669	158	107	142	28.6	1876	500
KNM4-59AABY	50sm	0.387	0.494	188	129	175	33.0	2470	500
KNM4-64AABY	70sm	0.268	0.343	229	161	220	38.0	3691	500
KNM4-68AABY	95sm	0.193	0.248	275	196	272	42.6	4826	500
KNM4-72AABY	120sm	0.153	0.197	310	226	316	45.8	5838	250
KNM4-77AABY	150sm	0.124	0.16	346	258	363	50.7	7163	250
KNM4-80AABY	185sm	0.0991	0.129	387	300	420	56.3	8740	250
KNM4-84AABY	240sm	0.0754	0.0998	445	350	500	62.8	11210	250
KNM4-87AABY	300sm	0.0601	0.0812	500	400	570	68.9	13680	250

Catalogue No.	Conductors		Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal		Max. DC Resistance at 20° C	Max. AC Resistance at 90° C	Laid in Ground	Laid in Duct	Laid in Free Air	Overall Diameter approx.	Net weight approx.	Standard packing
	(mm ²)		(ohm/km)	(ohm/km)	(Amps.)	(Amps.)	(Amps.)	(mm)	(kg/km)	(m ± 5 %)
Four Core with reduced neutral										
CNMB-107AABY	25rm	16rm	0.727 / 1.15	0.927 / 1.47	128	90	118	26.0	1511	1000
CNMB-110AABY	35rm	16rm	0.524 / 1.15	0.669 / 1.47	158	107	142	28.6	1729	500
KNMB-112AABY	50sm	25sm	0.387 / 0.727	0.494 / 0.927	188	129	175	32.7	2271	500
KNMB-115AABY	70sm	35rm	0.268 / 0.524	0.343 / 0.669	229	161	220	36.6	3059	500
KNMB-117AABY	95sm	50sm	0.193 / 0.387	0.248 / 0.494	275	196	272	42.4	4408	250
KNMB-120AABY	120sm	70sm	0.153 / 0.268	0.197 / 0.343	310	226	316	45.1	5396	250
KNMB-122AABY	150sm	70sm	0.124 / 0.268	0.16 / 0.343	346	258	363	51.4	6536	250
KNMB-125AABY	185sm	95sm	0.0991 / 0.193	0.129 / 0.248	387	300	420	55.9	7980	250
KNMB-127AABY	240sm	120sm	0.0754 / 0.153	0.0998 / 0.197	445	350	500	62.2	10118	250
KNMB-129AABY	300sm	150sm	0.0601 / 0.124	0.0812 / 0.16	500	400	570	68.5	12350	250

rm – circular stranded conductor

sm – sectoral stranded conductor

STEEL WIRES ARMoured CABLES, ALUMINUM CONDUCTORS, PVC INSULATED AND SHEATHED (0.6/1 KV)



1. Stranded Aluminum Conductor.
2. PVC Insulation (PVC/A).
3. PVC Bedding.
4. Galvanized Steel Wire Armouring.
5. PVC Sheath.
6. Cable Marking.

DESCRIPTION	Multicore cables with aluminum conductors, PVC insulated, galvanized steel wire armoured and PVC sheath. Cables are rated 0.6/1 KV and conform to IEC 60502 - 1.	
CONSTRUCTION	Conductor	Plain stranded circular or sectoral aluminum conductors per IEC 60228 class 2.
	Insulation	PVC/A insulated for 70°C.
	Assembly & Bedding	Two, three or four insulated conductors are laid up, filled with non-hygroscopic material compatible with the insulation and covered with layer of PVC bedding.
	Armour	Galvanized steel wires applied helically over the PVC bedding.
	Sheath	PVC to IEC 60502 - 1, color black. Special PVC with flame retardant or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Two cores - red and black. Three cores - red, yellow and blue. Four cores - red, yellow, blue and black.	
APPLICATION	These cables are designed for underground burial where there is a risk of mechanical damage.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement. GC3 reserve the right to alter cable specifications.

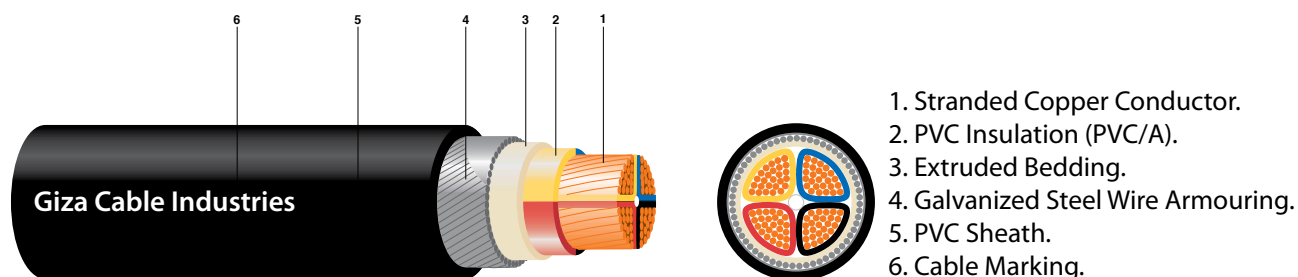
Catalogue No.	Conductors	Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal	Max. DC Resistance at 20° C	Max. AC Resistance at 70° C	Laid in Ground	Laid in Duct	Laid in Free Air	Overall Diameter approx.	Net weight approx.	Standard packing
	(mm ²)	(ohm/km)	(ohm/km)	(Amps.)	(Amps.)	(Amps.)	(mm)	(kg/km)	(m ± 5 %)
TWO CORE									
QDL2-38AABY	16rm	1.91	2.29	70	55	64	22.2	825	1000
QDL2-48AABY	25rm	1.20	1.44	90	71	66	27.4	1450	1000
QDL2-53AABY	35rm	0.868	1.04	112	90	78	29.2	2250	1000
THREE CORE									
QDL3-38AABY	16rm	1.91	2.29	70	55	64	22.8	915	1000
QDL3-48AABY	25rm	1.20	1.44	90	71	66	26.8	1510	1000
QDL3-53AABY	35rm	0.868	1.04	112	90	78	30.6	1445	1000
RDL3-59AABY	50sm	0.641	0.771	133	101	121	33.4	1790	500
RDL3-64AABY	70sm	0.443	0.533	161	131	152	35.9	2410	500
RDL3-68AABY	95sm	0.320	0.385	199	155	184	40.1	2950	500
RDL3-72AABY	120sm	0.253	0.305	220	179	215	43.8	3405	250
RDL3-77AABY	150sm	0.206	0.249	250	202	247	48.6	4375	250
RDL3-80AABY	185sm	0.164	0.199	280	232	285	52.9	5100	250
RDL3-84AABY	240sm	0.125	0.151	327	268	342	58.8	6165	250
RDM3-87AABY	300sm	0.100	0.123	360	310	405	64.2	7215	250
FOUR CORE									
QDM4-38AABY	16rm	1.91	2.29	70	55	64	27.8	1720	1000
QDM4-48AABY	25rm	1.20	1.44	90	71	66	32.2	2110	1000
QDM4-53AABY	35rm	0.868	1.04	112	90	78	33.4	2520	500
RDM4-59AABY	50sm	0.641	0.771	133	101	121	36.4	3040	500
RDM4-64AABY	70sm	0.443	0.533	161	131	152	39.6	3750	500
RDM4-68AABY	95sm	0.320	0.385	199	155	184	44.2	4730	500
RDM4-72AABY	120sm	0.253	0.305	220	179	215	49.2	5570	250
RDM4-77AABY	150sm	0.206	0.249	250	202	247	53.8	6430	250
RDM4-80AABY	185sm	0.164	0.199	280	232	285	58.4	7790	250
RDM4-84AABY	240sm	0.125	0.151	327	260	346	65.0	9180	250
RDM4-87AABY	300sm	0.100	0.123	360	310	399	71.0	10590	250

Catalogue No.	Conductors		Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal		Max. DC Resistance at 20° C	Max. AC Resistance at 70° C	Laid in Ground	Laid in Duct	Laid in Free Air	Overall Diameter approx.	Net weight approx.	Standard packing
	(mm ²)		(ohm/km)	(ohm/km)	(Amps.)	(Amps.)	(Amps.)	(mm)	(kg/km)	(m ± 5 %)
Four Core with reduced neutral										
QDMB-107AABY	25rm	16rm	1.20 / 1.91	1.44 / 2.29	83	67	76	29.4	1770	1000
QDMB-110AABY	35rm	16rm	0.868 / 1.91	1.04 / 2.29	113	89	101	33.4	2080	1000
QDMB-112AABY	50sm	25rm	0.641 / 1.20	0.771 / 1.44	133	101	121	34.4	2300	1000
RDMB-115AABY	70sm	35rm	0.443 / 0.868	0.533 / 1.04	161	131	152	37.8	2820	1000
RDMB-117AABY	95sm	50sm	0.320 / 0.641	0.385 / 0.771	199	155	184	42.6	3410	1000
RDMB-120AABY	120sm	70sm	0.253 / 0.443	0.305 / 0.533	220	179	215	46.8	4370	500
RDMB-122AABY	150sm	70sm	0.206 / 0.443	0.249 / 0.533	250	202	247	50.8	5080	500
RDMB-125AABY	185sm	95sm	0.164 / 0.320	0.199 / 0.385	280	232	285	55.6	5950	500
RDMB-127AABY	240sm	120sm	0.125 / 0.253	0.151 / 0.305	327	260	346	61.6	7230	250
RDMB-129AABY	300sm	150sm	0.100 / 0.206	0.123 / 0.249	360	310	399	67.4	8540	250

rm – circular stranded conductor

sm – sectoral stranded conductor

STEEL WIRE ARMoured CABLES, COPPER CONDUCTORS, PVC INSULATED AND SHEATHED (0.6/1 KV)



DESCRIPTION	Multicore cables with copper conductor, PVC insulated, galvanized steel wire armoured and PVC sheath. Cables are rated 0.6/1 KV and conform to IEC 60502 - 1.	
CONSTRUCTION	Conductor	Plain stranded circular or sectoral copper conductor as per IEC 60228 class 2.
	Insulation	PVC/A insulated for 70°C.
	Assembly & Bedding	Two, three or four insulated cores are laid up, filled with non-hygroscopic material compatible with the insulation and covered with layer of PVC bedding.
	Armour	Galvanized steel wire armour applied helically over PVC bedding.
	Sheath	PVC to IEC 60502 - 1, color black. Special PVC with flame retardant or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Two cores - red and black. Three cores - red, yellow and blue. Four cores - red, yellow, blue and black.	
APPLICATION	These cables are designed for underground burial where there is a risk of mechanical damage.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement, GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal (mm ²)	Max. DC Resistance at 20° C (ohm/km)	Max. AC Resistance at 70° C (ohm/km)	Laid in Ground (Amps.)	Laid in Duct (Amps.)	Laid in Free Air (Amps.)	Overall Diameter approx. (mm)	Net weight approx. (kg/km)	Standard packing (m ± 5 %)
TWO CORE									
CDL2-19AABY	1.5rm	12.1	14.5	--	15	16	15.1	490	1000
CDL2-26AABY	2.5rm	7.41	8.87	--	20	22	15.9	550	1000
CDL2-31AABY	4rm	4.61	5.52	36	25	29	17.9	690	1000
CDL2-33AABY	6rm	3.08	3.69	45	32	37	19.1	800	1000
CDL2-35AABY	10rm	1.83	2.19	60	42	50	20.9	985	1000
CDL2-38AABY	16rm	1.15	1.38	78	55	66	22.7	1205	1000
CDL2-48AABY	25rm	0.727	0.87	100	70	87	26.6	1710	1000
CDL2-53AABY	35rm	0.524	0.628	125	85	106	28.8	2050	1000
THREE CORE									
CDL3-19AABY	1.5rm	12.1	14.5	--	15	16	15.6	499	1000
CDL3-26AABY	2.5rm	7.41	8.87	--	20	22	16.5	570	1000
CDL3-31AABY	4rm	4.61	5.52	36	25	29	18.6	727	1000
CDL3-33AABY	6rm	3.08	3.69	45	32	37	19.9	846	1000
CDL3-35AABY	10rm	1.83	2.19	60	42	50	21.9	1064	1000
CDL3-38AABY	16rm	1.15	1.38	78	55	66	23.8	1325	1000

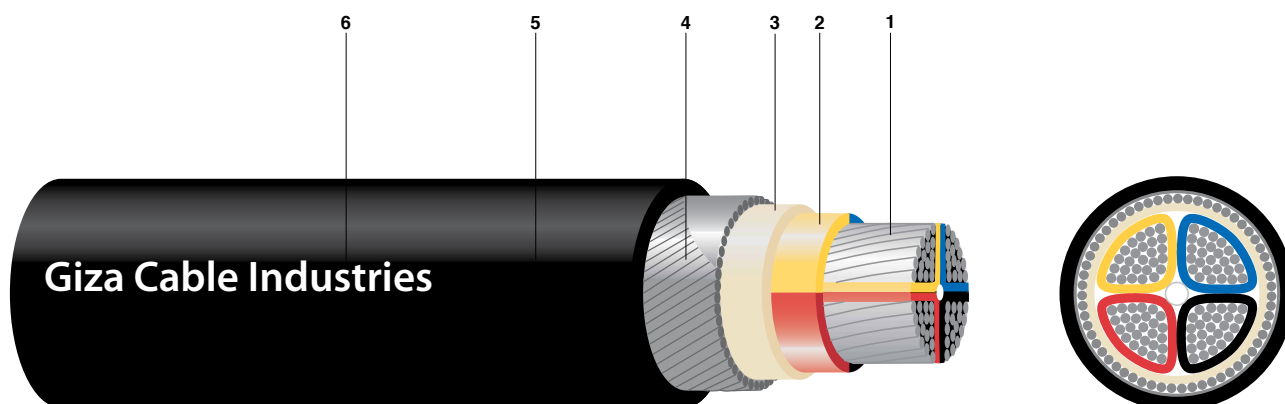
Catalogue No.	Conductors	Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal	Max. DC Resistance at 20° C	Max. AC Resistance at 70° C	Laid in Ground	Laid in Duct	Laid in Free Air	Overall Diameter approx.	Net weight approx.	Standard packing
	(mm ²)	(ohm/km)	(ohm/km)	(Amps.)	(Amps.)	(Amps.)	(mm)	(kg/km)	(m ± 5 %)
THREE CORE									
CDL3-48AABY	25rm	0.727	0.87	100	70	87	29.4	1981	500
CDL3-53AABY	35rm	0.524	0.628	125	85	106	28.4	2138	500
KDL3-59AABY	50sm	0.387	0.464	147	102	132	32.3	2698	500
KDL3-64AABY	70sm	0.268	0.322	180	126	165	36.4	3686	500
KDL3-68AABY	95sm	0.193	0.232	215	155	205	40.5	4693	500
KDL3-72AABY	120sm	0.153	0.185	245	180	235	44.4	5539	500
KDL3-77AABY	150sm	0.124	0.151	275	205	270	49.4	7068	500
KDL3-80AABY	185sm	0.0991	0.121	308	232	310	53.7	8431	250
KDL3-84AABY	240sm	0.0754	0.0939	350	270	365	59.6	10526	250
KDL3-87AABY	300sm	0.0601	0.064	390	310	420	65.0	12697	250
FOUR CORE									
CDL4-19AABY	1.5rm	12.1	14.5	--	15	16	16.5	556	1000
CDL4-26AABY	2.5rm	7.41	8.87	--	20	22	17.4	632	1000
CDL4-31AABY	4rm	4.61	5.54	42	36	35	19.8	822	1000
CDL3-33AABY	6rm	3.08	3.69	54	43	44	21.3	969	1000
CDL3-35AABY	10rm	1.83	2.19	71	57	60	23.5	1235	1000
CDL3-38AABY	16rm	1.15	1.38	78	55	66	26.3	1710	1000
CDL3-48AABY	25rm	0.727	0.870	100	70	87	29.7	2332	500
CDL3-53AABY	35rm	0.524	0.628	125	85	106	31.3	2636	500
KDL3-59AABY	50sm	0.387	0.464	147	102	132	37.0	3629	500
KDL3-64AABY	70sm	0.268	0.322	180	126	165	40.6	4764	500
KDL3-68AABY	95sm	0.193	0.232	215	155	205	46.6	5928	500
KDL3-72AABY	120sm	0.153	0.185	245	180	235	49.3	7410	500
KDL3-77AABY	150sm	0.124	0.151	275	205	270	54.4	8835	250
KDL3-80AABY	185sm	0.0991	0.121	308	232	310	60.6	10735	250
KDL3-84AABY	240sm	0.0754	0.0939	350	270	365	66.9	13414	250
KDL3-87AABY	300sm	0.0601	0.064	390	310	420	73.6	16245	250

Catalogue No.	Conductors		Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal		Max. DC Resistance at 20° C	Max. AC Resistance at 70° C	Laid in Ground	Laid in Duct	Laid in Free Air	Overall Diameter approx.	Net weight approx.	Standard packing
	(mm ²)		(ohm/km)	(ohm/km)	(Amps.)	(Amps.)	(Amps.)	(mm)	(kg/km)	(m ± 5 %)
Four Core with reduced neutral										
CDLB-107AABY	25rm	16rm	0.727 / 1.15	0.87 / 1.38	125	106	102	30.8	2209	500
CDLB-110AABY	35rm	16rm	0.524 / 1.15	0.628 / 1.38	125	85	106	31.3	2456	500
KDLB-112AABY	50sm	25sm	0.387 / 0.727	0.464 / 0.87	147	102	132	36.4	3183	500
KDLB-115AABY	70sm	35rm	0.268 / 0.524	0.322 / 0.628	180	126	165	40.4	4323	500
KDLB-117AABY	95sm	50sm	0.193 / 0.387	0.232 / 0.464	215	155	205	45.4	5491	500
KDLB-120AABY	120sm	70sm	0.153 / 0.268	0.185 / 0.322	245	180	235	49.1	6964	500
KDLB-122AABY	150sm	70sm	0.124 / 0.268	0.151 / 0.322	275	205	270	54.2	8208	500
KDLB-125AABY	185sm	95sm	0.0991 / 0.193	0.121 / 0.232	308	232	310	59.8	9904	250
KDLB-127AABY	240sm	120sm	0.0754 / 0.153	0.0939 / 0.185	350	270	365	66.5	12331	250
KDLB-129AABY	300sm	150sm	0.0601 / 0.124	0.0764 / 0.151	390	310	420	72.8	14858	250

rm – circular stranded conductor

sm – sectoral stranded conductor

STEEL WIRE ARMoured CABLES, ALUMINUM CONDUCTORS, XLPE INSULATED AND SHEATHED (0.6/1 KV)



1. Stranded Aluminum Conductor.
2. XLPE Insulation.
3. Extruded Bedding.
4. Galvanized Steel Wire Armouring.
5. PVC Sheath.
6. Cable Marking.

DESCRIPTION	Multicore cables with aluminum conductors, XLPE insulated, galvanized steel wire armoured and PVC sheath. Cables are rated 0.6/1 KV and conform to IEC 60502 - 1.	
CONSTRUCTION	Conductor	Plain stranded circular or sectoral aluminum conductors per IEC 60228 class 2.
	Insulation	XLPE (cross-linked polyethylene) insulation for 90°C.
	Assembly & Bedding	Two, three or four insulated conductors are laid up, filled with non-hygroscopic material compatible with the insulation and covered with layer of PVC bedding.
	Armour	Galvanized steel wires applied helically over the PVC bedding.
	Sheath	PVC type ST2 to IEC 60502 - 1, color black. Special PVC with flame retardant or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Two cores - red and black. Three cores - red, yellow and blue. Four cores - red, yellow, blue and black.	
APPLICATION	These cables are designed for underground burial where there is a risk of mechanical damage.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement. GC3 reserve the right to alter cable specifications.

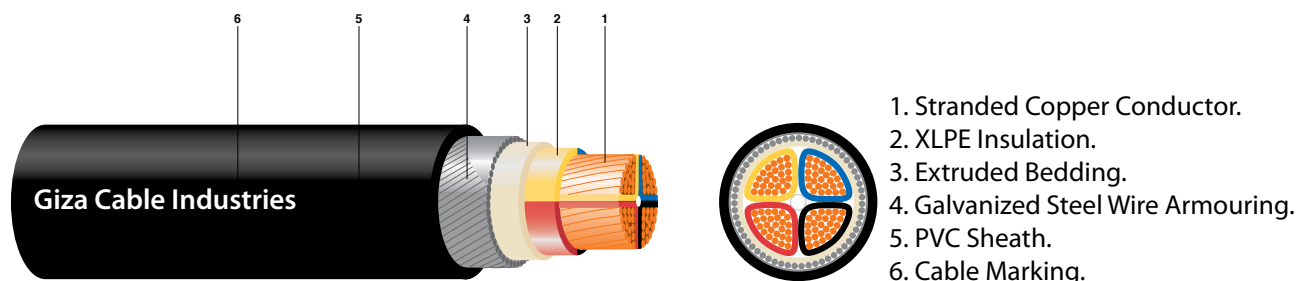
Catalogue No.	Conductors	Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal	Max. DC Resistance at 20° C	Max. AC Resistance at 90° C	Laid in Ground	Laid in Duct	Laid in Free Air	Overall Diameter approx.	Net weight approx.	Standard packing
	(mm ²)	(ohm/km)	(ohm/km)	(Amps.)	(Amps.)	(Amps.)	(mm)	(kg/km)	(m ± 5 %)
TWO CORE									
QNM2-38AABY	16rm	1.91	2.45	76	53	69	21.0	770	1000
QNM2-48AABY	25rm	1.20	1.54	99	70	93	27.2	1360	1000
QNM2-53AABY	35rm	0.868	1.113	122	83	115	29.2	1580	1000
THREE CORE									
QNM3-38AABY	16rm	1.91	2.45	76	53	69	22.2	870	1000
QNM3-48AABY	25rm	1.2	1.54	99	70	93	27.5	1382	1000
QNM3-53AABY	35rm	0.868	1.113	122	83	115	27.5	1387	1000
RNM3-59AABY	50sm	0.641	0.822	146	100	136	31.1	1663	500
RNM3-64AABY	70sm	0.443	0.569	178	125	171	35.2	2233	500
RNM3-68AABY	95sm	0.320	0.411	213	152	211	39.4	2717	500
RNM3-72AABY	120sm	0.253	0.325	242	176	250	43.4	3140	250
RNM3-77AABY	150sm	0.206	0.265	270	200	282	48.3	4109	250
RNM3-80AABY	185sm	0.164	0.212	305	230	326	52.5	4755	250
RNM3-84AABY	240sm	0.125	0.163	352	272	390	58.1	5662	250
RNM3-87AABY	300sm	0.1	0.131	400	310	450	63.0	6626	250
FOUR CORE									
QNM4-38AABY	16rm	1.91	2.45	76	53	69	26.2	1230	1000
QNM4-48AABY	25rm	1.20	1.54	99	70	93	30.6	1601	1000
QNM4-53AABY	35rm	0.868	1.113	122	83	115	30.1	1639	500
RNM4-59AABY	50sm	0.641	0.822	146	100	136	34.7	1976	500
RNM4-64AABY	70sm	0.443	0.569	178	125	171	39.8	2741	500
RNM4-68AABY	95sm	0.320	0.411	213	152	211	44.2	3268	500
RNM4-72AABY	120sm	0.253	0.325	242	176	250	48.4	4275	250
RNM4-77AABY	150sm	0.206	0.265	270	200	282	53.1	4959	250
RNM4-80AABY	185sm	0.164	0.212	305	230	326	59.0	5809	250
RNM4-84AABY	240sm	0.125	0.163	352	272	390	65.6	7006	250
RNM4-87AABY	300sm	0.100	0.131	400	310	450	71.7	8194	250

Catalogue No.	Conductors		Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal		Max. DC Resistance at 20° C	Max. AC Resist- ance at 90° C	Laid in Ground	Laid in Duct	Laid in Free Air	Overall Diameter approx.	Net weight approx.	Standard packing
	(mm ²)		(ohm/km)	(ohm/km)	(Amps.)	(Amps.)	(Amps.)	(mm)	(kg/km)	(m ± 5 %)
	Four Core with reduced neutral									
QNMB-107AABY	25rm	16rm	1.20 / 1.91	1.44 / 2.45	99	70	93	29.4	1682	1000
QNMB-110AABY	35rm	16rm	0.868 / 1.91	1.113 / 2.45	122	83	115	30.4	1620	1000
RNMB-112AABY	50sm	25rm	0.641 / 1.20	0.822 / 1.54	146	100	136	34.5	1990	1000
RNMB-115AABY	70sm	35rm	0.443 / 0.868	0.569 / 1.113	178	125	171	39.6	2689	10000
RNMB-117AABY	95sm	50sm	0.320 / 0.641	0.411 / 0.822	213	152	211	44.0	3197	1000
RNMB-120AABY	120sm	70sm	0.253 / 0.443	0.325 / 0.569	242	176	250	46.6	4085	500
RNMB-122AABY	150sm	70sm	0.206 / 0.443	0.265 / 0.569	270	200	282	52.7	4802	500
RNMB-125AABY	185sm	95sm	0.164 / 0.320	0.212 / 0.385	305	230	326	58.8	5624	500
RNMB-127AABY	240sm	120sm	0.125 / 0.253	0.163 / 0.305	352	272	390	65.2	6793	250
RNMB-129AABY	300sm	150sm	0.1 / 0.206	0.131 / 0.249	400	310	450	71.3	7871	250

rm – circular stranded conductor

sm – sectoral stranded conductor

STEEL WIRES ARMoured CABLES, COPPER CONDUCTORS, XLPE INSULATED AND SHEATHED (0.6/1 KV)



DESCRIPTION	Multicore cables with copper conductors, XLPE insulated, galvanized steel wire armoured and PVC sheathed. Cables are rated 0.6/1 KV and conform to IEC 60502-1.	
CONSTRUCTION	Conductor	Plain stranded circular or sectoral copper conductors per IEC 60228 class 2.
	Insulation	XLPE (cross-linked polyethylene) insulation for 90°C.
	Assembly & Bedding	Two, three or four insulated conductors are laid up, filled with non-hygroscopic material compatible with the insulation and covered with layer of PVC bedding.
	Armour	Galvanized steel wires are applied helically over the PVC bedding.
	Sheath	PVC type ST2 to IEC 60502 - 1, color black. Special PVC with flame retardant or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Two cores - red and black. Three cores - red, yellow and blue. Four cores - red, yellow, blue and black.	
APPLICATION	These cables are designed for underground burial where there is a risk of mechanical damage.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement, GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal (mm ²)	Max. DC Resistance at 20° C (ohm/km)	Max. AC Resistance at 90° C (ohm/km)	Laid in Ground (Amps.)	Laid in Duct (Amps.)	Laid in Free Air (Amps.)	Overall Diameter approx. (mm)	Net weight approx. (kg/km)	Standard packing (m ± 5 %)
TWO CORE									
CNL2-19AABY	1.5rm	12.1	15.4	--	18	22	14.7	437	1000
CNL2-26AABY	2.5rm	7.41	9.45	--	24	29	15.5	494	1000
CNL2-31AABY	4rm	4.61	5.88	46	31	38	16.1	551	1000
CNL2-33AABY	6rm	3.08	3.93	57	39	48	17.7	660	1000
CNL2-35AABY	10rm	1.83	2.33	76	52	67	19.5	831	1000
CNL2-38AABY	16rm	1.15	1.47	98	68	88	21.3	1031	1000
CNL2-48AABY	25rm	0.727	0.927	128	90	118	26.6	1563	1000
CNL2-53AABY	35rm	0.524	0.669	158	107	142	28.8	1862	1000
THREE CORE									
CNL3-19AABY	1.5rm	12.1	15.4	--	26	24	15.2	470	1000
CNL3-26AABY	2.5rm	7.41	9.45	--	33	35	16.0	532	1000
CNL3-31AABY	4rm	4.61	5.88	51	41	45	16.7	608	1000
CNL3-33AABY	6rm	3.08	3.93	64	50	54	18.4	736	1000
CNL3-35AABY	10rm	1.83	2.33	84	67	74	20.3	941	1000
CNL3-38AABY	16rm	1.15	1.47	109	84	97	22.3	1197	1000
CNL3-48AABY	25rm	0.727	0.927	128	90	118	25.9	1796	1000

Catalogue No.	Conductors	Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal	Max. DC Resistance at 20° C	Max. AC Resistance at 90° C	Laid in Ground	Laid in Duct	Laid in Free Air	Overall Diameter approx.	Net weight approx.	Standard packing
	(mm ²)	(ohm/km)	(ohm/km)	(Amps.)	(Amps.)	(Amps.)	(mm)	(kg/km)	(m ± 5 %)
THREE CORE									
CNL3-53AABY	35rm	0.524	0.669	158	107	142	27.5	2005	1000
KNL3-59AABY	50sm	0.387	0.494	188	129	175	31.1	2499	1000
KNL3-64AABY	70sm	0.268	0.343	229	161	220	35.2	3444	1000
KNL3-68AABY	95sm	0.193	0.248	275	196	272	39.4	4399	500
KNL3-72AABY	120sm	0.153	0.197	310	226	316	43.4	5258	500
KNL3-77AABY	150sm	0.124	0.16	346	258	363	48.3	6736	500
KNL3-80AABY	185sm	0.0991	0.129	387	300	420	52.5	8028	250
KNL3-84AABY	240sm	0.0754	0.099	445	350	500	58.1	9966	250
KNL3-87AABY	300sm	0.0601	0.081	500	400	570	63.6	12041	250
FOUR CORE									
CNL4-19AABY	1.5rm	12.1	15.4	--	18	22	16.2	523	1000
CNL4-26AABY	2.5rm	7.41	9.45	--	24	29	16.9	594	1000
CNL4-31AABY	4rm	4.61	5.88	46	31	38	18.2	703	1000
CNL4-33AABY	6rm	3.08	3.93	57	39	48	19.6	841	1000
CNL4-35AABY	10rm	1.83	2.33	76	52	67	21.8	1093	1000
CNL4-38AABY	16rm	1.15	1.47	109	84	97	25.9	1572	1000
CNL4-48AABY	25rm	0.727	0.927	128	90	118	30.0	2133	1000
CNL4-53AABY	35rm	0.524	0.669	158	107	142	30.6	2465	500
KNL4-59AABY	50sm	0.387	0.494	188	129	175	34.7	3097	500
KNL4-64AABY	70sm	0.268	0.343	229	161	220	39.8	43211	500
KNL4-68AABY	95sm	0.193	0.248	275	196	272	44.2	5510	500
KNL4-72AABY	120sm	0.153	0.197	310	226	316	48.4	7101	250
KNL4-77AABY	150sm	0.124	0.16	346	258	363	53.1	8455	250
KNL4-80AABY	185sm	0.0991	0.129	387	300	420	59.0	10032	250
KNL4-84AABY	240sm	0.0754	0.099	445	350	500	65.4	12754	250
KNL4-87AABY	300sm	0.0601	0.081	500	400	570	71.7	15409	250

Catalogue No.	Conductors		Electrical Characteristics		Current Rating			Packing		
	Cross Sectional Area Nominal		Max. DC Resistance at 20° C	Max. AC Resistance at 90° C	Laid in Ground	Laid in Duct	Laid in Free Air	Overall Diameter approx.	Net weight approx.	Standard packing
	(mm ²)		(ohm/km)	(ohm/km)	(Amps.)	(Amps.)	(Amps.)	(mm)	(kg/km)	(m ± 5 %)
Four Core with reduced neutral										
CNLB-107AABY	25rm	16rm	0.727 / 1.15	0.927 / 1.47	128	90	118	29.2	2014	1000
CNLB-110AABY	35rm	16rm	0.524 / 1.15	0.669 / 1.47	158	107	142	30.4	2323	500
KNLB-112AABY	50sm	25sm	0.387 / 0.727	0.494 / 0.927	188	129	175	34.5	2969	500
KNLB-115AABY	70sm	35rm	0.268 / 0.524	0.343 / 0.669	229	161	220	39.6	4095	500
KNLB-117AABY	95sm	50sm	0.193 / 0.387	0.248 / 0.494	275	196	272	44.0	5144	250
KNLB-120AABY	120sm	70sm	0.153 / 0.268	0.197 / 0.343	310	226	316	46.6	6588	250
KNLB-122AABY	150sm	70sm	0.124 / 0.268	0.16 / 0.343	346	258	363	52.7	7291	250
KNLB-125AABY	185sm	95sm	0.0991 / 0.193	0.129 / 0.248	387	300	420	58.8	9434	250
KNLB-127AABY	240sm	120sm	0.0754 / 0.153	0.0998 / 0.197	445	350	500	65.2	11771	250
KNLB-129AABY	300sm	150sm	0.0601 / 0.124	0.0812 / 0.16	500	400	570	71.3	14103	250

rm – circular stranded conductor

sm – sectoral stranded conductor

DERATING FACTORS FOR LOW VOLTAGE CABLES

CABLES LAID DIRECT IN GROUND

If the site conditions are not the same as the standard conditions for which the ampacities are calculated, the current ratings in the previous tables are to be multiplied with the appropriate rating factors given in the following tables.

Derating factors for variation in ground temperature

Insulation	Ground Temperature (°C)						
	25	30	35	40	45	50	55
XLPE Insulated Cables	1.09	1.04	1	0.95	0.90	0.85	0.80
PVC Insulated Cables	1.1	1.05	1	0.95	0.89	0.84	0.77

Derating factors for variation in depth of burial (to centre of cable in the trefoil group of cables)

Depth of laying - (m)	Size of conductor		
	Up to 50mm ²	70mm ² to 300mm ²	Above 300mm ²
0.50	1	1	1
0.60	0.99	0.98	0.97
0.80	0.97	0.96	0.94
1.00	0.95	0.93	0.92
1.25	0.94	0.92	0.89
1.50	0.93	0.90	0.87
1.75	0.92	0.89	0.86
2.00	0.91	0.88	0.85

Derating factors for variation in thermal resistivity of soil (average values)

Size of conductor mm ²	Soil thermal resistivity in °C.m/W					
	0.8	0.9	1.0	1.5	2.0	2.5
SINGLE CORE CABLES						
Up to 150	1.16	1.12	1.07	0.91	0.81	0.73
from 185-300	1.17	1.12	1.07	0.91	0.80	0.73
from 400-630	1.17	1.12	1.07	0.91	0.80	0.73
MULTI-CORE CABLES						
Up to 16	1.12	1.08	1.05	0.93	0.84	0.77
from 25-150	1.14	1.10	1.06	0.92	0.82	0.75
from 185-500	1.15	1.10	1.07	0.92	0.81	0.74

CABLES INSTALLED IN AIR

Derating factors for variation in air temperature

Insulation	Air temperature (°C)						
	25	30	35	40	45	50	55
XLPE	1.14	1.10	1.05	1	0.95	0.89	0.84
PVC	1.15	1.11	1.05	1	0.95	0.88	0.82

Group rating factors for multicore cables in flat formation

Number of cables in group	Touching	Spacing		
		0.15m	0.3m	0.45m
2	0.81	0.87	0.91	0.93
3	0.70	0.78	0.84	0.88
4	0.63	0.74	0.81	0.86
5	0.59	0.70	0.78	0.84
6	0.55	0.68	0.77	0.83

Group rating factors for circuits of three single core cables, in trefoil or laid touching in flat horizontal formation

Number of circuits	Touching		Spacing		
	Trefoil	Laid flat	0.15m	0.3m	0.45m
2	0.78	0.81	0.83	0.88	0.91
3	0.66	0.70	0.73	0.79	0.84
4	0.61	0.64	0.68	0.73	0.81
5	0.56	0.60	0.64	0.73	0.79
6	0.53	0.57	0.61	0.71	0.78

CABLES INSTALLED IN DUCTS




Derating factors for variation in thermal resistivity of soil (average values)

Size of conductor mm ²	Soil thermal resistivity in °C.m/W					
	0.8	0.9	1.0	1.5	2.0	2.5
SINGLE CORE CABLES						
Up to 150	1.10	1.07	1.04	0.94	0.86	0.80
from 185-300	1.11	1.08	1.05	0.93	0.85	0.79
from 400-630	1.12	1.08	1.05	0.93	0.84	0.78
MULTI-CORE CABLES						
Up to 16	1.04	1.03	1.02	0.97	0.92	0.88
from 25-150	1.06	1.04	1.03	0.95	0.90	0.85
from 185-500	1.07	1.05	1.03	0.95	0.88	0.83





Derating factors for depth of laying (to centre of duct or trefoil group of ducts).

Depth of laying (m)	Single core	Multi core
0.50	1.00	1.00
0.60	0.98	0.99
0.80	0.95	0.98
1.00	0.93	0.96
1.25	0.91	0.95
1.50	0.89	0.94
1.75	0.88	0.94
2.00	0.87	0.93
2.50	0.86	0.92
3 or more	0.85	0.81

Group rating factors for single core cables in trefoil single way ducts, horizontal formation

Number of circuits	Touching	Spacing	
		 0.45m	 0.60m
2	0.87	0.91	0.93
3	0.78	0.84	0.87
4	0.74	0.81	0.85
5	0.70	0.79	0.83
6	0.69	0.78	0.82

Group rating factors for multicore cables in single way ducts, horizontal formation

Number of circuits	Touching	Spacing		
		 0.30m	 0.45m	 0.60m
2	0.90	0.93	0.95	0.96
3	0.83	0.88	0.91	0.93
4	0.79	0.85	0.89	0.92
5	0.75	0.83	0.88	0.91
6	0.73	0.82	0.87	0.90

CALCULATION OF PERMISSIBLE SHORT-CIRCUIT CURRENTS

The permissible short-circuit currents are calculated in accordance with IEC 724:1982.

The calculation method neglects heat loss and is accurate enough for the majority of practical cases. Any error is on the safe side.

The following formulae have been derived from IEC 60724:

$$I_k = \frac{0.1038}{\sqrt{t}} \cdot s \quad \text{For copper conductor PVC insulated.}$$

$$I_k = \frac{0.068}{\sqrt{t}} \cdot s \quad \text{For aluminium conductor PVC insulated.}$$

$$I_k = \frac{0.143}{\sqrt{t}} \cdot s \quad \text{For copper conductor XLPE insulated.}$$

$$I_k = \frac{0.0937}{\sqrt{t}} \cdot s \quad \text{For aluminium conductor XLPE insulated.}$$

I_k : Short-circuit current (kA)

t : Duration of short-circuit current (sec.)

s : Cross-sectional area of conductor (mm²)

VOLTAGE DROP

The tabulated voltage drop values are based on a load power factor of 85% lagging and given for a current of one ampere for a one meter run. For any given cable length, the values should be multiplied by the length (in meters) and by the current (in amperes) that the cables are to carry.

Single phase system

$$V = 2 \times IL (R_{ac} \cdot \cos \phi + X_L \cdot \sin \phi)$$

Three phase system

$$V = \sqrt{3} \cdot IL (R_{ac} \cdot \cos \phi + X_L \cdot \sin \phi)$$

Where:

V = Voltage drop volt/amp/meter

XL = Inductive reactance of cable Ohm/meter

Cos ϕ = Power factor of load

Rac = A.C. resistance of conductor at maximum conductor temperature Ohm/meter

I = Load Current

L = Cable Length

APPROXIMATE VOLTAGE DROP FOR SINGLE CORE STRANDED PLAIN COPPER/ALUMINIUM CONDUCTORS, PVC INSULATION, PVC SHEATH

Nominal area of conductor mm ²	Copper conductor mV/amp/m		Aluminium conductor mV/amp/m	
	Flat	Trefoil	Flat	Trefoil
1.5	22.6	22.5	--	--
2.5	13.9	13.8	--	--
4	8.7	8.7	--	--
6	5.9	54.8	--	--
10	3.5	3.5	--	--
16	2.3	2.2	3.7	3.7
25	1.5	1.5	2.4	2.3
35	1.1	1.1	1.7	1.7
50	0.83	0.82	1.3	1.3
70	0.61	0.60	0.94	0.92
95	0.47	0.45	0.71	0.69
120	0.39	0.38	0.58	0.56
150	0.34	0.33	0.49	0.48
185	0.29	0.28	0.41	0.40
240	0.25	0.24	0.34	0.33
300	0.22	0.21	0.29	0.28
400	0.20	0.18	0.25	0.24
500	0.18	0.17	0.22	0.21
630	0.16	0.15	0.19	0.18

APPROXIMATE VOLTAGE DROP FOR THREE AND FOUR CORE STRANDED PLAIN COPPER/ALUMINIUM CONDUCTORS, PVC INSULATION, PVC SHEATH

Nominal area of conductor mm ²	Copper conductor mV/amp/m PVC	Aluminium conductor mV/amp/m PVC
1.5	22.5	--
2.5	13.8	--
4	8.6	--
6	5.8	--
10	3.5	--
16	2.2	3.6
25	1.4	2.3
35	1.1	1.7
50	0.80	1.3
70	0.58	0.91
95	0.44	0.68
120	0.37	0.55
150	0.32	0.47
185	0.27	0.39
240	0.23	0.32
300	0.20	0.27
400	0.18	0.23
500	0.15	0.20

APPROXIMATE VOLTAGE DROP FOR SINGLE CORE STRANDED PLAIN COPPER/ALUMINIUM CONDUCTORS, XLPE INSULATION, PVC SHEATH

Nominal area of conductor mm ²	Copper conductor mV/amp/m		Aluminium conductor mV/amp/m	
	Flat	Trefoil	Flat	Trefoil
1.5	22.9	22.8	--	--
2.5	14.1	14.1	--	--
4	8.8	8.8	--	--
6	5.9	5.9	--	--
10	3.6	3.6	--	--
16	2.3	2.3	3.7	3.7
25	1.5	1.5	2.4	2.4
35	1.1	1.1	1.8	1.7
50	0.84	0.83	1.3	1.3
70	0.61	0.60	0.95	0.93
95	0.47	0.46	0.71	0.70
120	0.39	0.38	0.58	0.57
150	0.34	0.33	0.50	0.48
185	0.29	0.28	0.42	0.40
240	0.25	0.24	0.34	0.33
300	0.22	0.21	0.29	0.28
400	0.19	0.18	0.25	0.24
500	0.17	0.16	0.22	0.21
630	0.16	0.15	0.19	0.18

APPROXIMATE VOLTAGE DROP FOR THREE AND FOUR CORE STRANDED PLAIN COPPER/ALUMINIUM CONDUCTORS, XLPE INSULATION, PVC SHEATH

Nominal area of conductor mm ²	Copper conductor mV/amp/m	Aluminium conductor mV/amp/m
1.5	22.8	--
2.5	14.0	--
4	8.7	--
6	5.9	--
10	3.5	--
16	2.2	3.7
25	1.5	2.4
35	1.1	1.7
50	0.81	1.3
70	0.58	0.92
95	0.44	0.68
120	0.37	0.56
150	0.31	0.47
185	0.27	0.39
240	0.23	0.32
300	0.20	0.27
400	0.18	0.23
500	0.15	0.20

CABLE HANDLING AND LAYING PARAMETERS

MINIMUM RECOMMENDED BENDING RADII

Bending of power cables at short radii may permanently damage the insulation, shielding or jacket and ultimately result in a cable failure.

Bending radii

Cable Type	Radius (mm)
Single core cables Armoured or Unarmoured	12 D
Multicore cables Armoured	12 D
Multicore cables Unarmoured	10 D

Where D = Overall diameter of the cable

PULLING TENSIONS AND SIDE WALL PRESSURES

The maximum allowable pulling force is dependent on the cable design, the mechanical limitations, the conductor material and the method of laying and pulling the cables. Each factor has finite limitations and should under no circumstances be exceeded.

The maximum pulling tension should not exceed as follows:

- A) Cable equipped with a pulling eye attached to the conductor.
1. The maximum tension in kg is 5 times the conductor cross sectional area in mm² for copper and 3 times the cross-sectional area for aluminium.
 2. For multicore cables, the maximum tension can be increased by number of cores in the cable, provided pulling eye is attached to each conductor.
- B) Cable equipped with a cable stocking over the sheath.
1. For unarmoured cables, the maximum tension in kg is 0.5 times the square of the overall cable diameter (i.e. $0.5D^2$).
 2. For armoured cables, the maximum tension in kg is 1.2 times the square of the overall diameter (i.e. $1.2D^2$).
 3. For laid up cables, when all conductors have the same cross-sectional area, the equivalent overall diameter of the assembly is given by:

$$D_e = k \cdot D \text{ mm} \quad \text{Where:}$$

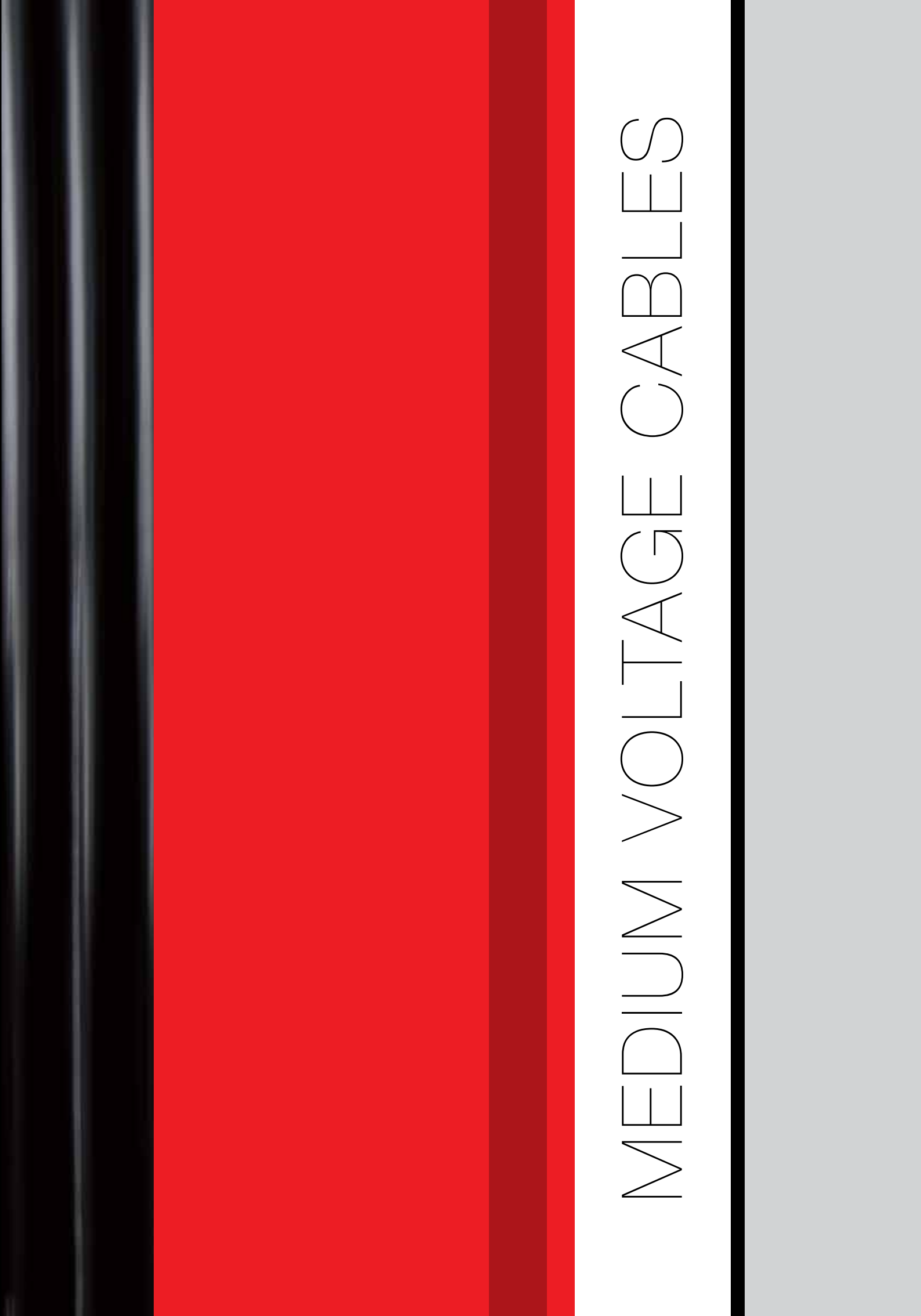
D_e	=	assembly diameter in mm
k	=	2 for 2 cables
k	=	2.16 for 3 cables
k	=	2.42 for 4 cables
D	=	overall cable diameter

Maximum side wall pressure is given by the following formula:

$$\text{Max. side wall pressure} = \frac{\text{Max. Pulling tension}}{\text{Min. Bending radius}}$$

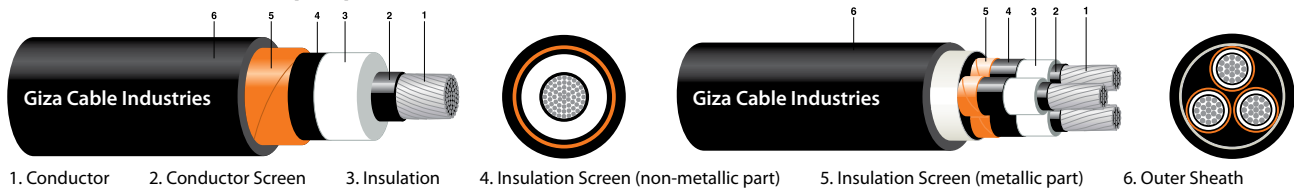
The maximum side wall pressure shall not exceed 500 kg/m, i.e., the tension in the cable in kg as it leaves the bend shall not exceed 500 times the radius of the bend in meters.

It is acceptable to pull the cable in either direction. As a matter of fact it is an intelligent design to select pulling direction resulting in minimum stress on both the cable and the pulling equipment. This however, is controlled by the limitations of working space at the ends in consideration.



MEDIUM VOLTAGE CABLES

UNARMoured ALUMINIUM CONDUCTOR XLPE INSULATED AND PVC SHEATHED 6/10(12) KV

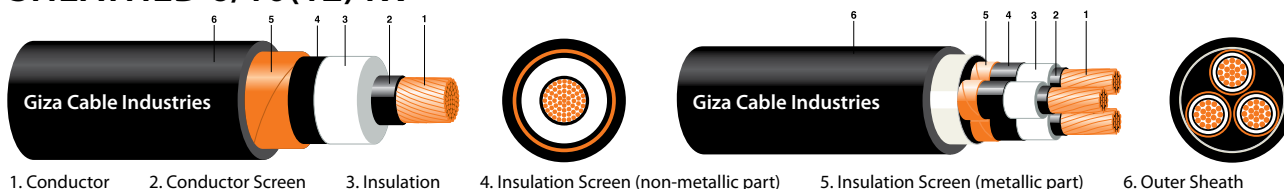


DESCRIPTION	Stranded circular compacted aluminium conductors, XLPE insulated, copper tape screened, three cores assembled together with non-hygroscopic polypropylene fillers, unarmoured and PVC sheathed. Cables comply with IEC 60502-2.	
CONSTRUCTION	Conductor	Plain circular compacted aluminium conductor to IEC 60228 class 2.
	Conductor Screen	Extruded semiconductive compound.
	Insulation	Extruded XLPE (cross-linked polyethylene), rated 90°C.
	Insulation Screen (Non- Metallic part)	An extruded layer of semiconductive compound firmly bonded to insulation. (Semi conductive compound easily strippable from insulation available on request).
	Insulation Screen (Metallic part)	Copper tape screen. Copper wires screen available on request.
	Assembly and Filling	For 3 cores cable, the 3 cores are assembled together with non-hygroscopic fillers and covered with binder tape.
	Outer Sheath	PVC type ST2 to IEC 60502 colour black. Special PVC formulations with flame retardant and/or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Red, yellow and blue narrow tapes applied between non-metallic and metallic parts of insulation screen.	
APPLICATION	These cables are generally suitable for direct burial or for installation on trays or in ducts. Where there is a risk of mechanical damage, armoured cables should be used.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement, GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Max Conductor Resistance		Operating Capacitance	Inductance		Current Rating				Approx. Overall Diameter	Approx. Weight
	Cross Sectional Area Nominal	DC at 20°C	AC at 90°C	µf/Km	Trefoil	Flat	Laid in the Ground		Laid in Free Air		mm	Kg/Km
	(mm²)	(ohm/km)	(ohm/km)		mh/Km	mh/Km	Trefoil A	Flat A	Trefoil A	Flat A		
SINGLE CORE												
YNB1-59AAPS-W	50	0.641	0.8221	0.253	0.410	0.594	150	160	160	200	22.5	610
YNB1-64AAPS-W	70	0.443	0.5681	0.289	0.385	0.572	190	195	205	245	24.0	715
YNB1-68AAPS-W	95	0.320	0.4105	0.320	0.368	0.557	220	233	245	300	25.5	815
YNB1-72AAPS-W	120	0.253	0.3247	0.350	0.352	0.537	255	265	285	345	27.0	920
YNB1-77AAPS-W	150	0.206	0.2645	0.384	0.344	0.535	280	295	324	390	28.7	1120
YNB1-80AAPS-W	185	0.164	0.2107	0.413	0.334	0.520	320	330	372	450	30.5	1250
YNB1-83AAPS-W	240	0.125	0.1611	0.462	0.319	0.501	370	385	442	530	33.0	1480
YNB1-87AAPS-W	300	0.100	0.1291	0.510	0.310	0.497	420	433	510	608	35.5	1700
YNB1-88AAPS-W	400	0.0778	0.1009	0.564	0.302	0.482	478	485	591	692	38.6	2120
YNB1-89AAPS-W	500	0.0605	0.0791	0.632	0.294	0.478	545	545	692	800	42.2	2500
YNB1-90AAPS-W	630	0.0469	0.0621	0.712	0.282	0.457	615	620	802	920	45.8	3000
YNB1-91AAPS-W	800	0.0367	0.0495	0.770	0.274	0.432	715	785	955	1185	51.0	3670
THREE CORE												
YNH3-59AAPS-T	50	0.641	0.8221	0.253	0.368	-	150	-	160	-	43.0	1800
YNH3-64AAPS-T	70	0.443	0.5683	0.289	0.346	-	190	-	200	-	46.5	2100
YNH3-68AAPS-T	95	0.320	0.4107	0.320	0.332	-	220	-	240	-	50.0	2440
YNH3-72AAPS-T	120	0.253	0.3251	0.350	0.319	-	255	-	277	-	53.2	2780
YNH3-77AAPS-T	150	0.206	0.2649	0.384	0.312	-	280	-	315	-	57.0	3280
YNH3-80AAPS-T	185	0.164	0.2114	0.413	0.300	-	320	-	360	-	61.0	3790
YNH3-83AAPS-T	240	0.125	0.1618	0.462	0.287	-	370	-	427	-	66.2	4560
YNH3-87AAPS-T	300	0.100	0.1302	0.510	0.280	-	420	-	490	-	71.4	5380

UNARMoured COPPER CONDUCTOR XLPE INSULATED AND PVC SHEATHED 6/10(12) KV

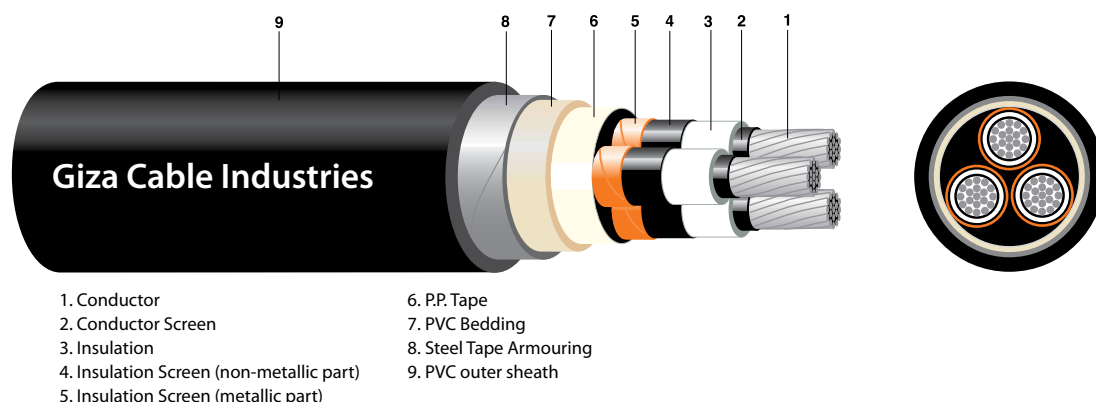


DESCRIPTION	Stranded circular compacted copper conductors, XLPE insulated, copper tape screened, three cores assembled together with non-hygroscopic polypropylene fillers, unarmoured and PVC sheathed. Cables comply with IEC 60502-2.	
CONSTRUCTION	Conductor	Plain circular compacted copper conductor to IEC 60228 class 2.
	Conductor Screen	Extruded semiconductive compound.
	Insulation	Extruded XLPE (cross-linked polyethylene), rated 90°C.
	Insulation Screen (Non- Metallic part)	An extruded layer of semiconductive compound firmly bonded to insulation. (Semi conductive compound easily strippable from insulation available on request).
	Insulation Screen (Metallic part)	Copper tape screen. Copper wires screen available on request.
	Assembly and Filling	For 3 cores cable, the 3 cores are assembled together with non-hygroscopic fillers and covered with binder tape.
	Outer Sheath	PVC type ST2 to IEC 60502 colour black. Special PVC formulations with flame retardant and/or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Red, yellow and blue narrow tapes applied between non-metallic and metallic parts of insulation screen.	
APPLICATION	These cables are generally suitable for direct burial or for installation on trays or in ducts. Where there is a risk of mechanical damage, armoured cables should be used.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement, GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Max Conductor Resistance		Operating Capacitance	Inductance		Current Rating				Approx. Overall Diameter	Approx. Weight
	Cross Sectional Area Nominal	DC at 20°C	AC at 90°C	µf/Km	Trefoil	Flat	Laid in the Ground		Laid in Free Air		mm	Kg/Km
	(mm²)	(ohm/km)	(ohm/km)		mh/Km	mh/Km	Trefoil A	Flat A	Trefoil A	Flat A		
SINGLE CORE												
ENB1-59AAPS-W	50	0.387	0.4937	0.253	0.410	0.594	190	200	210	235	21.1	770
ENB1-64AAPS-W	70	0.268	0.3421	0.289	0.385	0.572	240	250	265	296	24.3	1140
ENB1-68AAPS-W	95	0.193	0.2465	0.320	0.368	0.557	285	295	320	360	25.5	1390
ENB1-72AAPS-W	120	0.153	0.1956	0.350	0.352	0.537	325	330	370	410	27.0	1660
ENB1-77AAPS-W	150	0.124	0.1588	0.384	0.344	0.535	360	365	420	460	28.7	2020
ENB1-80AAPS-W	185	0.0991	0.1272	0.413	0.334	0.520	405	410	480	520	30.5	2400
ENB1-83AAPS-W	240	0.0754	0.0973	0.462	0.319	0.501	465	470	565	605	33.0	2950
ENB1-87AAPS-W	300	0.0601	0.0781	0.510	0.310	0.497	520	530	645	685	35.8	3600
ENB1-88AAPS-W	400	0.0470	0.0618	0.564	0.302	0.482	580	585	730	763	38.6	4510
ENB1-89AAPS-W	500	0.0366	0.0491	0.632	0.294	0.478	630	640	835	855	42.2	5610
ENB1-90AAPS-W	630	0.0283	0.0391	0.712	0.282	0.457	680	690	960	982	46.0	6940
ENB1-91AAPS-W	800	0.0221	0.0319	0.770	0.274	0.432	750	755	1135	1165	51.0	9220
THREE CORE												
ENH3-59AAPS-T	50	0.387	0.4938	0.253	0.368	-	185	-	185	-	43.5	2660
ENH3-64AAPS-T	70	0.268	0.3423	0.289	0.346	-	225	-	230	-	47.3	3390
ENH3-68AAPS-T	95	0.193	0.2469	0.320	0.332	-	265	-	270	-	50.0	4180
ENH3-72AAPS-T	120	0.153	0.1961	0.350	0.319	-	300	-	320	-	53.6	5140
ENH3-77AAPS-T	150	0.124	0.1595	0.384	0.312	-	330	-	360	-	57.0	5980
ENH3-80AAPS-T	185	0.0991	0.1282	0.413	0.300	-	380	-	400	-	61.0	7210
ENH3-83AAPS-T	240	0.0754	0.0986	0.462	0.287	-	440	-	470	-	66.3	9020
ENH3-87AAPS-T	300	0.0601	0.0799	0.510	0.280	-	490	-	520	-	72.0	11130

ALUMINIUM CONDUCTOR XLPE INSULATED STEEL TAPED ARMoured AND PVC SHEATHED 6/10(12) KV

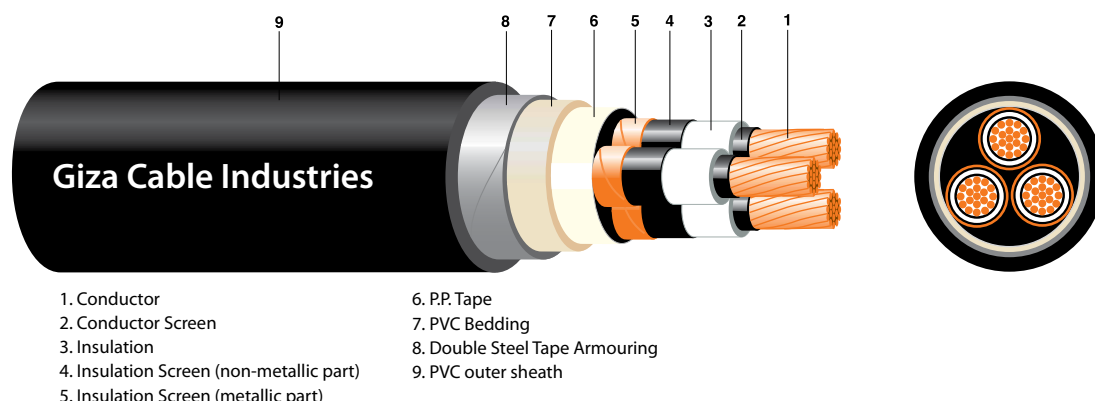


DESCRIPTION	Stranded circular compacted aluminium conductors, XLPE insulated, copper tape screened, three cores assembled together with non-hygroscopic polypropylene fillers, covered with extruded bedding, S.T. armoured and PVC sheathed. Cables comply with IEC 60502-2.	
CONSTRUCTION	Conductor	Plain circular compacted aluminium conductor to IEC 60228 class 2.
	Conductor Screen	Extruded semiconductive compound.
	Insulation	Extruded XLPE (cross-linked polyethylene), rated 90°C.
	Insulation Screen (Non- Metallic part)	An extruded layer of semiconductive compound firmly bonded to insulation. (Semi conductive compound easily strippable from insulation available on request).
	Insulation Screen (Metallic part)	Copper tape screen. Copper wires screen available on request.
	Assembly and Filling	3 cores assembled together with non-hygroscopic fillers and covered with binder tape.
	Bedding for Armour Cables	An extruded PVC layer.
	Armour	Double steel tapes, applied over the PVC bedding.
	Outer Sheath	PVC type ST2 to IEC 60502 colour black. Special PVC formulations with flame retardant and/or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Red, yellow and blue narrow tapes applied between non-metallic and metallic parts of insulation screen.	
APPLICATION	These cables are generally suitable for direct burial or for installation on trays or in ducts. Where there is a risk of mechanical damage, armoured cables should be used.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement. GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Max Conductor Resistance		Operating Capacitance	Inductance	Current Rating		Approx. Overall Diameter	Approx. Weight
	Cross Sectional Area Nominal	DC at 20°C	AC at 90°C	µf/Km	mh/Km	Laid in the Ground	Laid in Free Air	mm	Kg/Km
	(mm²)	(ohm/km)	(ohm/km)			A	A		
	THREE CORE								
YNM3-59AAPS-T	50	0.641	0.8221	0.253	0.368	144	150	47.3	2760
YNM3-64AAPS-T	70	0.443	0.5683	0.289	0.346	176	184	51.2	3170
YNM3-68AAPS-T	95	0.320	0.4107	0.320	0.332	209	222	54.6	3590
YNM3-72AAPS-T	120	0.253	0.3251	0.350	0.319	238	255	57.8	4000
YNM3-77AAPS-T	150	0.206	0.2649	0.384	0.312	266	288	61.8	4600
YNM3-80AAPS-T	185	0.164	0.2114	0.413	0.300	301	330	65.5	5180
YNM3-83AAPS-T	240	0.125	0.1618	0.462	0.287	349	390	71.1	6120
YNM3-87AAPS-T	300	0.100	0.1302	0.510	0.280	394	445	76.5	7100

COPPER CONDUCTOR XLPE INSULATED STEEL TAPED ARMoured AND PVC SHEATHED 6/10(12) KV

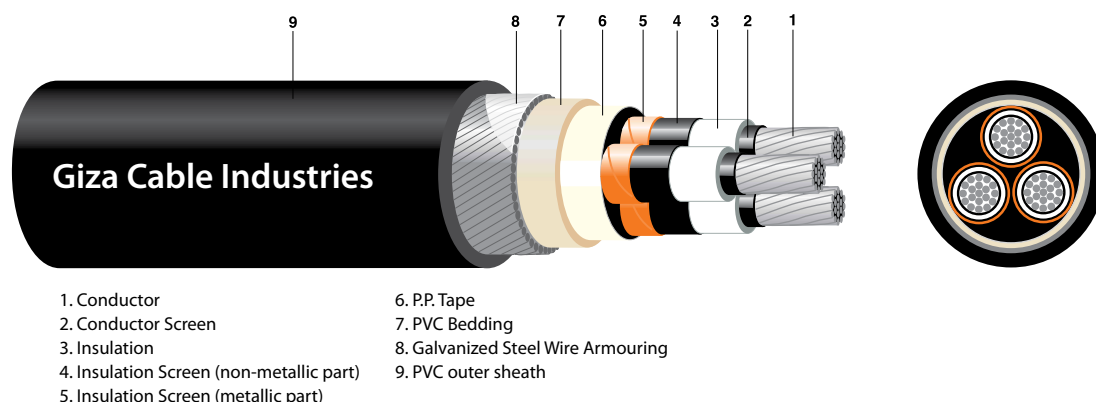


DESCRIPTION	Stranded circular compacted copper conductors, XLPE insulated, copper tape screened, three cores assembled together with non-hygroscopic polypropylene fillers, covered with extruded bedding, S. T. armoured and PVC sheathed. Cables comply with IEC 60502-2.	
CONSTRUCTION	Conductor	Plain circular compacted copper conductor to IEC 60228 class 2.
	Conductor Screen	Extruded semiconductive compound.
	Insulation	Extruded XLPE (cross-linked polyethylene), rated 90°C.
	Insulation Screen (Non- Metallic part)	An extruded layer of semiconductive compound firmly bonded to insulation. (Semi conductive compound easily strippable from insulation available on request).
	Insulation Screen (Metallic part)	Copper tape screen. Copper wires screen available on request.
	Assembly and Filling	3 cores assembled together with non-hygroscopic fillers and covered with binder tape.
	Bedding for Armour Cables	An extruded PVC layer.
	Armour	Double steel tapes, applied over the PVC bedding.
	Outer Sheath	PVC type ST2 to IEC 60502 colour black. Special PVC formulations with flame retardant and/or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Red, yellow and blue narrow tapes applied between non-metallic and metallic parts of insulation screen.	
APPLICATION	These cables are generally suitable for direct burial or for installation on trays or in ducts. Where there is a risk of mechanical damage, armoured cables should be used.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement. GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Max Conductor Resistance		Operating Capacitance	Inductance	Current Rating		Approx. Overall Diameter	Approx. Weight
	Cross Sectional Area Nominal (mm ²)	DC at 20°C (ohm/km)	AC at 90°C (ohm/km)	µf/Km	mh/Km	Laid in the Ground	Laid in Free Air	mm	Kg/Km
						A	A		
THREE CORE									
ENM3-59AAPS-T	50	0.387	0.4938	0.253	0.368	180	185	48.0	3630
ENM3-64AAPS-T	70	0.268	0.3423	0.289	0.346	220	230	51.8	4470
ENM3-68AAPS-T	95	0.193	0.2469	0.320	0.332	265	280	54.6	5300
ENM3-72AAPS-T	120	0.153	0.1961	0.350	0.319	300	320	57.8	6200
ENM3-77AAPS-T	150	0.124	0.1595	0.384	0.312	335	360	61.7	7290
ENM3-80AAPS-T	185	0.0991	0.1282	0.413	0.300	375	410	65.5	8600
ENM3-83AAPS-T	240	0.0754	0.0986	0.462	0.287	435	480	71.3	10600
ENM3-87AAPS-T	300	0.0601	0.0799	0.510	0.280	485	540	77.3	12850

ALUMINIUM CONDUCTOR XLPE INSULATED STEEL WIRES ARMoured AND PVC SHEATHED 6/10(12) KV

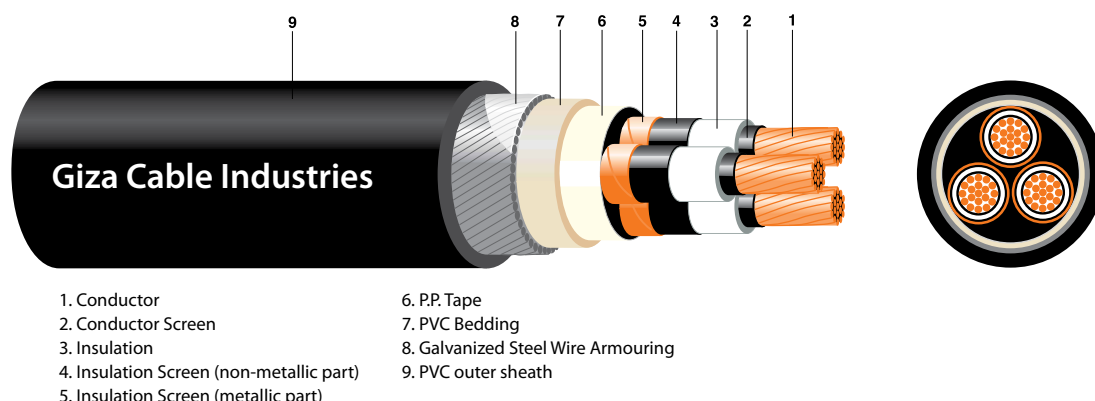


DESCRIPTION	Stranded circular compacted aluminium conductors, XLPE insulated, copper tape screened, three cores assembled together with non-hygroscopic polypropylene fillers, covered with extruded bedding, S.W. armoured and PVC sheathed. Cables comply with IEC 60502-2.	
CONSTRUCTION	Conductor	Plain circular compacted aluminium conductor to IEC 60228 class 2.
	Conductor Screen	Extruded semiconductive compound.
	Insulation	Extruded XLPE (cross-linked polyethylene), rated 90°C.
	Insulation Screen (Non- Metallic part)	An extruded layer of semiconductive compound firmly bonded to insulation. (Semi conductive compound easily strippable from insulation available on request).
	Insulation Screen (Metallic part)	Copper tape screen. Copper wires screen available on request.
	Assembly and Filling	3 cores assembled together with non-hygroscopic fillers and covered with binder tape.
	Bedding for Armour Cables	An extruded PVC layer.
	Armour	Galvanized round steel wires applied over the PVC bedding.
	Outer Sheath	PVC type ST2 to IEC 60502 colour black. Special PVC formulations with flame retardant and/or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Red, yellow and blue narrow tapes applied between non-metallic and metallic parts of insulation screen.	
APPLICATION	These cables are generally suitable for direct burial or for installation on trays or in ducts. Where there is a risk of mechanical damage, armoured cables should be used.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement, GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Max Conductor Resistance		Operating Capacitance	Inductance	Current Rating		Approx. Overall Diameter	Approx. Weight
	Cross Sectional Area Nominal (mm ²)	DC at 20°C (ohm/km)	AC at 90°C (ohm/km)	µf/Km	mh/Km	Laid in the Ground	Laid in Free Air	mm	Kg/Km
						A	A		
THREE CORE									
YNL3-59AAPS-T	50	0.641	0.8221	0.253	0.368	145	150	50.5	4190
YNL3-64AAPS-T	70	0.443	0.5683	0.289	0.346	177	187	54.3	4700
YNL3-68AAPS-T	95	0.320	0.4107	0.320	0.332	210	225	57.8	5200
YNL3-72AAPS-T	120	0.253	0.3251	0.350	0.319	240	260	61.0	5730
YNL3-77AAPS-T	150	0.206	0.2649	0.384	0.312	265	290	65.0	6450
YNL3-80AAPS-T	185	0.164	0.2114	0.413	0.300	300	330	70.0	7160
YNL3-83AAPS-T	240	0.125	0.1618	0.462	0.287	345	390	76.5	9130
YNL3-87AAPS-T	300	0.100	0.1302	0.510	0.280	387	440	81.7	10320

COPPER CONDUCTOR XLPE INSULATED STEEL WIRES ARMoured AND PVC SHEATHED 6/10(12) KV

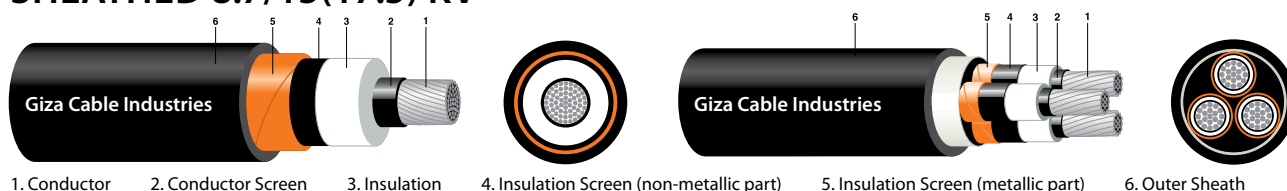


DESCRIPTION	Stranded circular compacted copper conductors, XLPE insulated, copper tape screened, three cores assembled together with non-hygroscopic polypropylene fillers, covered with extruded bedding, S.W. armoured and PVC sheathed. Cables comply with IEC 60502-2.	
CONSTRUCTION	Conductor	Plain circular compacted copper conductor to IEC 60228 class 2.
	Conductor Screen	Extruded semiconductive compound.
	Insulation	Extruded XLPE (cross-linked polyethylene), rated 90°C.
	Insulation Screen (Non- Metallic part)	An extruded layer of semiconductive compound firmly bonded to insulation. (Semi conductive compound easily strippable from insulation available on request).
	Insulation Screen (Metallic part)	Copper tape screen. Copper wires screen available on request.
	Assembly and Filling	3 cores assembled together with non-hygroscopic fillers and covered with binder tape.
	Bedding for Armour Cables	An extruded PVC layer.
	Armour	Galvanized round steel wires applied over the PVC bedding.
	Outer Sheath	PVC type ST2 to IEC 60502 colourblack. Special PVC formulations with flame retardant and/or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Red, yellow and blue narrow tapes applied between non-metallic and metallic parts of insulation screen.	
APPLICATION	These cables are generally suitable for direct burial or for installation on trays or in ducts. Where there is a risk of mechanical damage, armoured cables should be used.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement. GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Max Conductor Resistance		Operating Capacitance	Inductance	Current Rating		Approx. Overall Diameter	Approx. Weight
	Cross Sectional Area Nominal (mm ²)	DC at 20°C (ohm/km)	AC at 90°C (ohm/km)	µf/Km	mh/Km	Laid in the Ground	Laid in Free Air	mm	Kg/Km
						A	A		
THREE CORE									
ENL3-59AAPS-T	50	0.387	0.4938	0.253	0.368	180	190	51.1	5090
ENL3-64AAPS-T	70	0.268	0.3423	0.289	0.346	220	235	55.0	6000
ENL3-68AAPS-T	95	0.193	0.2469	0.320	0.332	260	280	57.8	6920
ENL3-72AAPS-T	120	0.153	0.1961	0.350	0.319	290	315	61.5	8090
ENL3-77AAPS-T	150	0.124	0.1595	0.384	0.312	330	360	65.0	9130
ENL3-80AAPS-T	185	0.0991	0.1282	0.413	0.300	370	400	67.0	10630
ENL3-83AAPS-T	240	0.0754	0.0986	0.462	0.287	420	470	76.6	13700
ENL3-87AAPS-T	300	0.0601	0.0799	0.510	0.280	460	520	82.5	16170

UNARMoured ALUMINIUM CONDUCTOR XLPE INSULATED AND PVC SHEATHED 8.7/15(17.5) KV

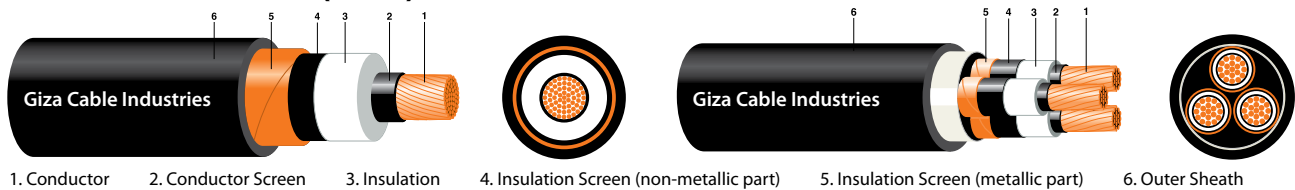


DESCRIPTION	Stranded circular compacted aluminium conductors, XLPE insulated, copper tape screened, three cores assembled together with non-hygroscopic polypropylene fillers, unarmoured and PVC sheathed. Cables comply with IEC 60502-2.	
CONSTRUCTION	Conductor	Plain circular compacted aluminium conductor to IEC 60228 class 2.
	Conductor Screen	Extruded semiconductive compound.
	Insulation	Extruded XLPE (cross-linked polyethylene), rated 90°C.
	Insulation Screen (Non- Metallic part)	An extruded layer of semiconductive compound firmly bonded to insulation. (Semi conductive compound easily strippable from insulation available on request).
	Insulation Screen (Metallic part)	Copper tape screen. Copper wires screen available on request.
	Assembly and Filling	For 3 cores cable, the 3 cores are assembled together with non-hygroscopic fillers and covered with binder tape.
	Outer Sheath	PVC type ST2 to IEC 60502 colour black. Special PVC formulations with flame retardant and/or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Red, yellow and blue narrow tapes applied between non-metallic and metallic parts of insulation screen.	
APPLICATION	These cables are generally suitable for direct burial or for installation on trays or in ducts. Where there is a risk of mechanical damage, armoured cables should be used.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement, GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Max Conductor Resistance		Operating Capacitance	Inductance		Current Rating				Approx. Overall Diameter	Approx. Weight
		Cross Sectional Area Nominal	DC at 20°C		AC at 90°C	µf/Km	Trefoil	Flat	Laid in the Ground			
	(mm²)	(ohm/km)	(ohm/km)	mh/Km	mh/Km		Trefoil A	Flat A	Trefoil A	Flat A		
SINGLE CORE												
YNB1-59AAPE-W	50	0.641	0.8221	0.204	0.427	0.612	150	160	160	200	24.6	700
YNB1-64AAPE-W	70	0.443	0.5681	0.232	0.402	0.587	190	195	205	245	26.2	800
YNB1-68AAPE-W	95	0.320	0.4105	0.256	0.384	0.569	220	233	245	300	27.7	905
YNB1-72AAPE-W	120	0.253	0.3247	0.279	0.367	0.553	255	265	285	345	29.3	1020
YNB1-77AAPE-W	150	0.206	0.2645	0.305	0.358	0.543	280	295	324	390	30.9	1220
YNB1-80AAPE-W	185	0.164	0.2107	0.328	0.347	0.532	320	330	372	450	32.8	1370
YNB1-83AAPE-W	240	0.125	0.1611	0.367	0.331	0.516	370	385	442	530	35.3	1600
YNB1-87AAPE-W	300	0.100	0.1291	0.402	0.322	0.506	420	433	510	608	37.7	1830
YNB1-88AAPE-W	400	0.0778	0.1009	0.447	0.313	0.497	478	485	591	692	41.0	2270
YNB1-89AAPE-W	500	0.0605	0.0791	0.497	0.303	0.488	545	545	692	800	44.6	2670
YNB1-90AAPE-W	630	0.0469	0.0621	0.552	0.290	0.476	615	620	802	920	48.2	3180
YNB1-91AAPE-W	800	0.0367	0.0495	0.619	0.278	0.465	715	785	955	1185	53.2	3870
THREE CORE												
YNH3-59AAPE-T	50	0.641	0.8221	0.204	0.391	-	150	-	160	-	47.6	2040
YNH3-64AAPE-T	70	0.443	0.5683	0.232	0.368	-	190	-	200	-	51.3	2380
YNH3-68AAPE-T	95	0.320	0.4107	0.256	0.352	-	220	-	240	-	54.7	2730
YNH3-72AAPE-T	120	0.253	0.3251	0.279	0.336	-	255	-	275	-	58.0	3120
YNH3-77AAPE-T	150	0.206	0.2649	0.305	0.325	-	280	-	312	-	61.6	3650
YNH3-80AAPE-T	185	0.164	0.2114	0.328	0.315	-	320	-	360	-	65.7	4210
YNH3-83AAPE-T	240	0.125	0.1618	0.367	0.301	-	370	-	425	-	70.5	4980
YNH3-87AAPE-T	300	0.100	0.1302	0.402	0.292	-	420	-	490	-	76.0	5780

UNARMoured COPPER CONDUCTOR XLPE INSULATED AND PVC SHEATHED 8.7/15(17.5) KV

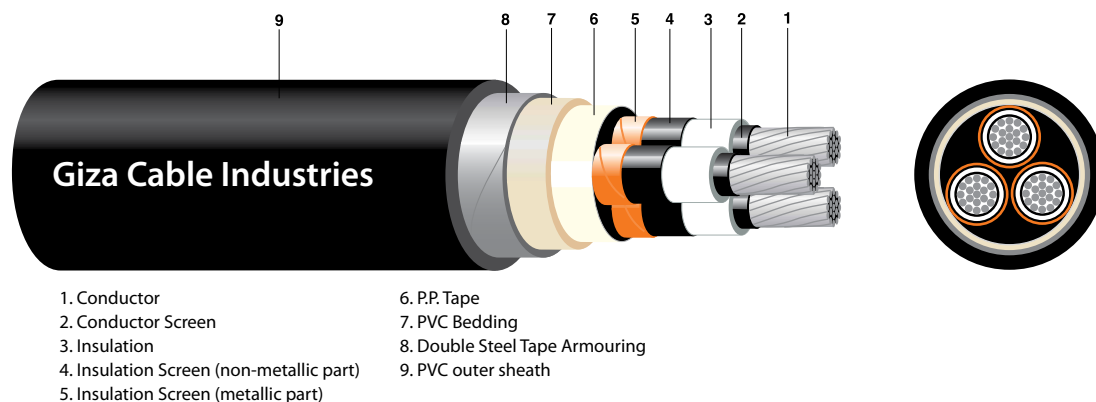


DESCRIPTION	Stranded circular compacted copper conductors, XLPE insulated, copper tape screened, three cores assembled together with non-hygroscopic polypropylene fillers, unarmoured and PVC sheathed. Cables comply with IEC 60502-2.	
CONSTRUCTION	Conductor	Plain circular compacted copper conductor to IEC 60228 class 2.
	Conductor Screen	Extruded semiconductive compound.
	Insulation	Extruded XLPE (cross-linked polyethylene), rated 90°C.
	Insulation Screen (Non- Metallic part)	An extruded layer of semiconductive compound firmly bonded to insulation. (Semi conductive compound easily strippable from insulation available on request).
	Insulation Screen (Metallic part)	Copper tape screen. Copper wires screen available on request.
	Assembly and Filling	For 3 cores cable, the 3 cores are assembled together with non-hygroscopic fillers and covered with binder tape.
	Outer Sheath	PVC type ST2 to IEC 60502 colour black. Special PVC formulations with flame retardant and/or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Red, yellow and blue narrow tapes applied between non-metallic and metallic parts of insulation screen.	
APPLICATION	These cables are generally suitable for direct burial or for installation on trays or in ducts. Where there is a risk of mechanical damage, armoured cables should be used.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement, GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Max Conductor Resistance		Operating Capacitance	Inductance		Current Rating				Approx. Overall Diameter	Approx. Weight
		Cross Sectional Area Nominal	DC at 20°C		AC at 90°C	µf/Km	Trefoil	Flat	Laid in the Ground			
	(mm²)	(ohm/km)	(ohm/km)	mh/Km	mh/Km		Trefoil A	Flat A	Trefoil A	Flat A	mm	Kg/Km
	SINGLE CORE											
ENB1-59AAPE-W	50	0.387	0.4937	0.204	0.427	0.612	200	206	215	240	24.7	1000
ENB1-64AAPE-W	70	0.268	0.3421	0.232	0.402	0.587	240	250	265	295	26.5	1230
ENB1-68AAPE-W	95	0.193	0.2465	0.256	0.384	0.569	285	295	325	360	27.7	1480
ENB1-72AAPE-W	120	0.153	0.1956	0.279	0.367	0.553	325	335	375	415	29.3	1760
ENB1-77AAPE-W	150	0.124	0.1588	0.305	0.358	0.543	360	365	425	460	31.0	2110
ENB1-80AAPE-W	185	0.0991	0.1272	0.328	0.347	0.532	405	410	485	520	32.8	2510
ENB1-83AAPE-W	240	0.0754	0.0973	0.367	0.331	0.516	465	465	565	610	35.4	3080
ENB1-87AAPE-W	300	0.0601	0.0781	0.402	0.322	0.506	510	515	650	690	38.0	3720
ENB1-88AAPE-W	400	0.0470	0.0618	0.447	0.313	0.497	550	580	735	760	41.0	4660
ENB1-89AAPE-W	500	0.0366	0.0491	0.497	0.303	0.488	610	650	840	860	44.6	5810
ENB1-90AAPE-W	630	0.0283	0.0391	0.552	0.290	0.476	670	710	960	980	48.4	7130
ENB1-91AAPE-W	800	0.0221	0.0319	0.619	0.278	0.465	800	830	1060	1095	53.4	9010
THREE CORE												
ENH3-59AAPE-T	50	0.387	0.4938	0.204	0.391	-	180	-	190	-	48.3	2990
ENH3-64AAPE-T	70	0.268	0.3423	0.232	0.368	-	220	-	230	-	52.3	3730
ENH3-68AAPE-T	95	0.193	0.2469	0.256	0.352	-	265	-	280	-	55.1	4510
ENH3-72AAPE-T	120	0.153	0.1961	0.279	0.336	-	300	-	325	-	58.5	5410
ENH3-77AAPE-T	150	0.124	0.1595	0.305	0.325	-	340	-	365	-	62.0	6420
ENH3-80AAPE-T	185	0.0991	0.1282	0.328	0.315	-	380	-	415	-	66.0	7690
ENH3-83AAPE-T	240	0.0754	0.0986	0.367	0.301	-	435	-	485	-	71.0	9540
ENH3-87AAPE-T	300	0.0601	0.0799	0.402	0.292	-	490	-	550	-	77.0	11590

ALUMINIUM CONDUCTOR XLPE INSULATED STEEL TAPED ARMoured AND PVC SHEATHED 8.7/15(17.5) KV

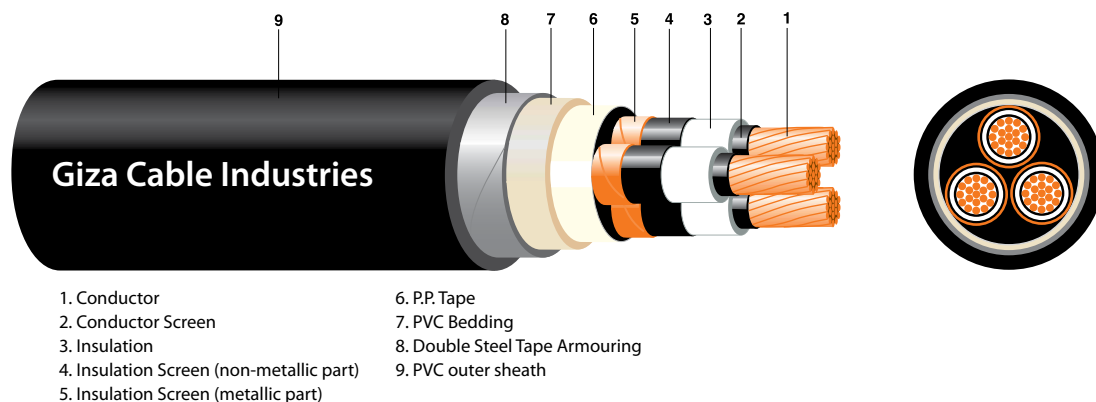


DESCRIPTION	Stranded circular compacted aluminium conductors, XLPE insulated, copper tape screened, three cores assembled together with non-hygroscopic polypropylene fillers, covered with extruded bedding, S.T. armoured and PVC sheathed. Cables comply with IEC 60502-2.	
CONSTRUCTION	Conductor	Plain circular compacted aluminium conductor to IEC 60228 class 2.
	Conductor Screen	Extruded semiconductive compound.
	Insulation	Extruded XLPE (cross-linked polyethylene), rated 90°C.
	Insulation Screen (Non- Metallic part)	An extruded layer of semiconductive compound firmly bonded to insulation. (Semi conductive compound easily strippable from insulation available on request).
	Insulation Screen (Metallic part)	Copper tape screen. Copper wires screen available on request.
	Assembly and Filling	3 cores assembled together with non-hygroscopic fillers and covered with binder tape.
	Bedding for Armour Cables	An extruded PVC layer.
	Armour	Double steel tapes applied over the PVC bedding.
	Outer Sheath	PVC type ST2 to IEC 60502 colour black. Special PVC formulations with flame retardant and/or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Red, yellow and blue narrow tapes applied between non-metallic and metallic parts of insulation screen.	
APPLICATION	These cables are generally suitable for direct burial or for installation on trays or in ducts. Where there is a risk of mechanical damage, armoured cables should be used.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement, GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Max Conductor Resistance		Operating Capacitance	Inductance	Current Rating		Approx. Overall Diameter	Approx. Weight
	Cross Sectional Area Nominal (mm ²)	DC at 20°C (ohm/km)	AC at 90°C (ohm/km)	μf/Km	mh/Km	Laid in the Ground	Laid in Free Air	mm	Kg/Km
						A	A		
THREE CORE									
YNM3-59AAPE-T	50	0.641	0.8221	0.204	0.391	142	147	52.4	3160
YNM3-64AAPE-T	70	0.443	0.5683	0.232	0.368	175	180	56.1	3575
YNM3-68AAPE-T	95	0.320	0.4107	0.256	0.352	206	220	59.7	4040
YNM3-72AAPE-T	120	0.253	0.3251	0.279	0.336	238	255	63.2	4530
YNM3-77AAPE-T	150	0.206	0.2649	0.305	0.325	265	285	67.0	5180
YNM3-80AAPE-T	185	0.164	0.2114	0.328	0.315	300	330	71.0	5800
YNM3-83AAPE-T	240	0.125	0.1618	0.367	0.301	348	386	76.0	6755
YNM3-87AAPE-T	300	0.100	0.1302	0.402	0.292	392	440	83.0	8500

COPPER CONDUCTOR XLPE INSULATED STEEL TAPED ARMoured AND PVC SHEATHED 8.7/15(17.5) KV

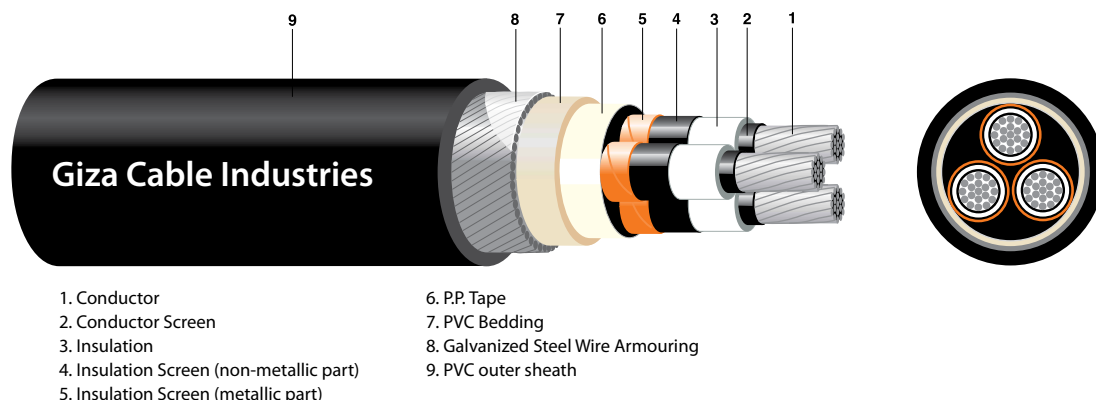


DESCRIPTION	Stranded circular compacted copper conductors, XLPE insulated, copper tape screened, three cores assembled together with non-hygroscopic polypropylene fillers, covered with extruded bedding, S.T. armoured and PVC sheathed. Cables comply with IEC 60502-2.	
CONSTRUCTION	Conductor	Plain circular compacted copper conductor to IEC 60228 class 2.
	Conductor Screen	Extruded semiconductive compound.
	Insulation	Extruded XLPE (cross-linked polyethylene), rated 90°C.
	Insulation Screen (Non- Metallic part)	An extruded layer of semiconductive compound firmly bonded to insulation. (Semi conductive compound easily strippable from insulation available on request).
	Insulation Screen (Metallic part)	Copper tape screen. Copper wires screen available on request.
	Assembly and Filling	3 cores assembled together with non-hygroscopic fillers and covered with binder tape.
	Bedding for Armour Cables	An extruded PVC layer.
	Armour	Double steel tapes applied over the PVC bedding.
	Outer Sheath	PVC type ST2 to IEC 60502 colour black. Special PVC formulations with flame retardant and/or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Red, yellow and blue narrow tapes applied between non-metallic and metallic parts of insulation screen.	
APPLICATION	These cables are generally suitable for direct burial or for installation on trays or in ducts. Where there is a risk of mechanical damage, armoured cables should be used.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement, GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Max Conductor Resistance		Operating Capacitance	Inductance	Current Rating		Approx. Overall Diameter	Approx. Weight
	Cross Sectional Area Nominal (mm ²)	DC at 20°C (ohm/km)	AC at 90°C (ohm/km)	µf/Km	mH/Km	Laid in the Ground A	Laid in Free Air A	mm	Kg/Km
THREE CORE									
ENM3-59AAPE-T	50	0.387	0.4938	0.204	0.391	180	190	52.7	4055
ENM3-64AAPE-T	70	0.268	0.3423	0.232	0.368	220	235	56.7	4875
ENM3-68AAPE-T	95	0.193	0.2469	0.256	0.352	265	280	60.0	5790
ENM3-72AAPE-T	120	0.153	0.1961	0.279	0.336	300	325	63.4	6790
ENM3-77AAPE-T	150	0.124	0.1595	0.305	0.325	335	370	67.0	7865
ENM3-80AAPE-T	185	0.0991	0.1282	0.328	0.315	380	420	71.0	9220
ENM3-83AAPE-T	240	0.0754	0.0986	0.367	0.301	435	485	76.2	11225
ENM3-87AAPE-T	300	0.0601	0.0799	0.402	0.292	485	550	84.0	14265

ALUMINIUM CONDUCTOR XLPE INSULATED STEEL WIRES ARMoured AND PVC SHEATHED 8.7/15(17.5) KV

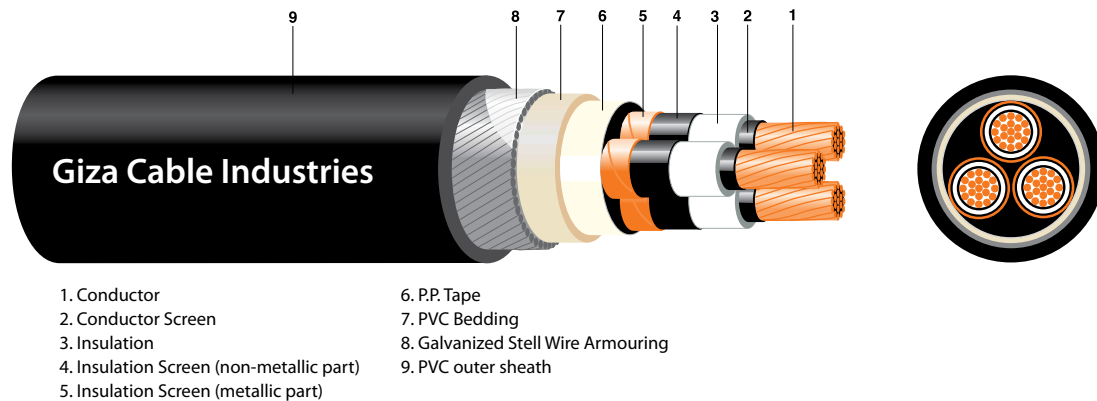


DESCRIPTION	Stranded circular compacted aluminium conductors, XLPE insulated, copper tape screened, three cores assembled together with non-hygroscopic polypropylene fillers, covered with extruded bedding, S.W. armoured and PVC sheathed. Cables comply with IEC 60502-2.	
CONSTRUCTION	Conductor	Plain circular compacted aluminium conductor to IEC 60228 class 2.
	Conductor Screen	Extruded semiconductive compound.
	Insulation	Extruded XLPE (cross-linked polyethylene), rated 90°C.
	Insulation Screen (Non- Metallic part)	An extruded layer of semiconductive compound firmly bonded to insulation. (Semi conductive compound easily strippable from insulation available on request).
	Insulation Screen (Metallic part)	Copper tape screen. Copper wires screen available on request.
	Assembly and Filling	3 cores assembled together with non-hygroscopic fillers and covered with binder tape.
	Bedding for Armour Cables	An extruded PVC layer.
	Armour	Galvanized round steel wires applied over the PVC bedding.
	Outer Sheath	PVC type ST2 to IEC 60502 colour black. Special PVC formulations with flame retardant and/or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Red, yellow and blue narrow tapes applied between non-metallic and metallic parts of insulation screen.	
APPLICATION	These cables are generally suitable for direct burial or for installation on trays or in ducts. Where there is a risk of mechanical damage, armoured cables should be used.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement. GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Max Conductor Resistance		Operating Capacitance	Inductance	Current Rating		Approx. Overall Diameter	Approx. Weight
	Cross Sectional Area Nominal	DC at 20°C	AC at 90°C	µf/Km	mh/Km	Laid in the Ground	Laid in Free Air	mm	Kg/Km
	(mm²)	(ohm/km)	(ohm/km)			A	A		
THREE CORE									
YNL3-59AAPE-T	50	0.641	0.8221	0.204	0.391	145	150	55.6	4720
YNL3-64AAPE-T	70	0.443	0.5683	0.232	0.368	177	186	59.3	5250
YNL3-68AAPE-T	95	0.320	0.4107	0.256	0.352	210	225	63.0	5830
YNL3-72AAPE-T	120	0.253	0.3251	0.279	0.336	238	256	66.4	6400
YNL3-77AAPE-T	150	0.206	0.2649	0.305	0.325	265	290	72.3	8100
YNL3-80AAPE-T	185	0.164	0.2114	0.328	0.315	300	330	76.2	8880
YNL3-83AAPE-T	240	0.125	0.1618	0.367	0.301	346	390	81.2	9870
YNL3-87AAPE-T	300	0.100	0.1302	0.402	0.292	387	440	87.0	11150

COPPER CONDUCTOR XLPE INSULATED STEEL WIRES ARMoured AND PVC SHEATHED 8.7/15(17.5) KV

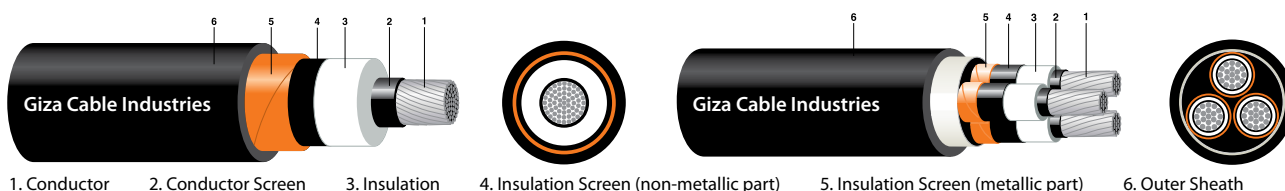


DESCRIPTION	Stranded circular compacted copper conductors, XLPE insulated, copper tape screened, three cores assembled together with non-hygroscopic polypropylene fillers, covered with extruded bedding, S.W. armoured and PVC sheathed. Cables comply with IEC 60502-2.	
CONSTRUCTION	Conductor	Plain circular compacted copper conductor to IEC 60228 class 2.
	Conductor Screen	Extruded semiconductive compound.
	Insulation	Extruded XLPE (cross-linked polyethylene), rated 90°C.
	Insulation Screen (Non- Metallic part)	An extruded layer of semiconductive compound firmly bonded to insulation. (Semi conductive compound easily strippable from insulation available on request).
	Insulation Screen (Metallic part)	Copper tape screen. Copper wires screen available on request.
	Assembly and Filling	3 cores assembled together with non-hygroscopic fillers and covered with binder tape.
	Bedding for Armour Cables	An extruded PVC layer.
	Armour	Galvanized round steel wires applied over the PVC bedding.
	Outer Sheath	PVC type ST2 to IEC 60502 colour black. Special PVC formulations with flame retardant and/or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Red, yellow and blue narrow tapes applied between non-metallic and metallic parts of insulation screen.	
APPLICATION	These cables are generally suitable for direct burial or for installation on trays or in ducts. Where there is a risk of mechanical damage, armoured cables should be used.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement. GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Max Conductor Resistance		Operating Capacitance	Inductance	Current Rating		Approx. Overall Diameter	Approx. Weight
	Cross Sectional Area Nominal (mm ²)	DC at 20°C (ohm/km)	AC at 90°C (ohm/km)	μf/Km	mh/Km	Laid in the Ground	Laid in Free Air	mm	Kg/Km
						A	A		
THREE CORE									
ENL3-59AAPE-T	50	0.387	0.4938	0.204	0.391	180	190	56.0	5720
ENL3-64AAPE-T	70	0.268	0.3423	0.232	0.368	220	235	60.0	6650
ENL3-68AAPE-T	95	0.193	0.2469	0.256	0.352	265	280	63.2	7660
ENL3-72AAPE-T	120	0.153	0.1961	0.279	0.336	295	325	66.6	8770
ENL3-77AAPE-T	150	0.124	0.1595	0.305	0.325	330	365	72.3	10950
ENL3-80AAPE-T	185	0.0991	0.1282	0.328	0.315	370	410	76.2	12450
ENL3-83AAPE-T	240	0.0754	0.0986	0.367	0.301	420	475	81.5	14750
ENL3-87AAPE-T	300	0.0601	0.0799	0.402	0.292	465	530	87.8	17250

UNARMoured ALUMINIUM CONDUCTOR XLPE INSULATED AND PVC SHEATHED 12/20(24) KV

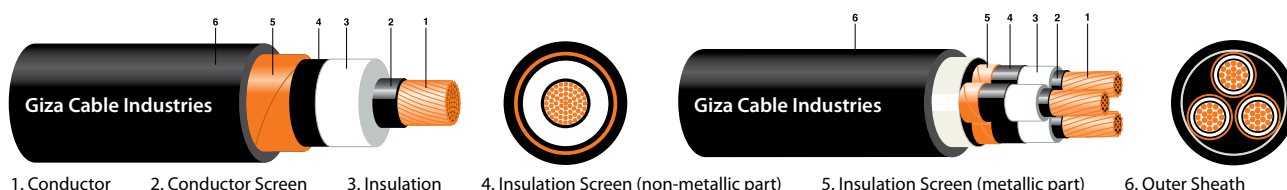


DESCRIPTION	Circular stranded compacted aluminium conductors, XLPE insulated, copper tape screen and PVC outer sheath. Complies with IEC 60502-2.	
CONSTRUCTION	Conductor	Plain circular compacted aluminium conductor to IEC 60228 class 2.
	Conductor Screen	Extruded semiconductive compound.
	Insulation	Extruded XLPE (cross-linked polyethylene) rated 90°C.
	Insulation Screen (Non- Metallic part)	An extruded layer of semiconductive compound firmly bonded to insulation. (Semi conductive compound easily strippable from insulation available on request).
	Insulation Screen (Metallic part)	Copper tape screen.
	Assembly and Filling	For 3 cores cable, the 3 cores are assembled together with non-hygroscopic fillers and covered with binder tape.
	Outer Sheath	PVC type ST2 to IEC 60502 colour black. Special PVC formulations with flame retardant and/or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Red, yellow and blue narrow tapes applied between non-metallic and metallic parts of insulation screen.	
APPLICATION	For installation on trays, in ducts or by direct burial.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement, GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Max Conductor Resistance		Operating Capacitance	Inductance		Current Rating				Approx. Overall Diameter	Approx. Weight
	Cross Sectional Area Nominal	DC at 20°C	AC at 90°C	µf/Km	Trefoil	Flat	Laid in the Ground		Laid in Free Air		mm	Kg/Km
	(mm²)	(ohm/km)	(ohm/km)		mh/Km	mh/Km	Trefoil A	Flat A	Trefoil A	Flat A		
SINGLE CORE												
YNB1-59AAPT-W	50	0.641	0.8221	0.179	0.443	0.625	150	160	160	200	26.6	775
YNB1-64AAPT-W	70	0.443	0.5681	0.201	0.416	0.600	190	195	205	245	28.4	890
YNB1-68AAPT-W	95	0.320	0.4105	0.221	0.397	0.581	220	233	245	300	30.0	1000
YNB1-72AAPT-W	120	0.253	0.3247	0.239	0.380	0.565	255	265	285	345	31.5	1130
YNB1-77AAPT-W	150	0.206	0.2645	0.258	0.370	0.555	280	295	324	390	33.1	1320
YNB1-80AAPT-W	185	0.164	0.2107	0.278	0.357	0.542	320	330	372	450	35.0	1480
YNB1-83AAPT-W	240	0.125	0.1611	0.309	0.341	0.526	370	385	442	530	37.3	1700
YNB1-87AAPT-W	300	0.100	0.1291	0.339	0.331	0.516	420	433	510	608	40.0	1950
YNB1-88AAPT-W	400	0.0778	0.1009	0.376	0.321	0.503	478	485	591	692	43.0	2390
YNB1-89AAPT-W	500	0.0605	0.0791	0.418	0.310	0.494	545	545	692	800	46.7	2800
YNB1-90AAPT-W	630	0.0469	0.0621	0.465	0.299	0.483	615	610	802	920	50.3	3370
YNB1-91AAPT-W	800	0.0367	0.0495	0.520	0.292	0.474	715	785	955	1185	55.6	4100
THREE CORE												
YNH3-59AAPT-T	50	0.641	0.8221	0.179	0.407	-	150	-	160	-	52.0	2320
YNH3-64AAPT-T	70	0.443	0.5683	0.201	0.384	-	190	-	200	-	55.6	2670
YNH3-68AAPT-T	95	0.320	0.4107	0.221	0.366	-	220	-	240	-	59.1	3080
YNH3-72AAPT-T	120	0.253	0.3251	0.239	0.351	-	255	-	275	-	62.3	3500
YNH3-77AAPT-T	150	0.206	0.2649	0.258	0.339	-	280	-	310	-	66.0	4070
YNH3-80AAPT-T	185	0.164	0.2114	0.278	0.329	-	320	-	360	-	70.0	4660
YNH3-83AAPT-T	240	0.125	0.1618	0.309	0.313	-	370	-	425	-	75.3	5450
YNH3-87AAPT-T	300	0.100	0.1302	0.339	0.304	-	420	-	490	-	80.5	6200

UNARMoured COPPER CONDUCTOR XLPE INSULATED AND PVC SHEATHED 12/20(24) KV

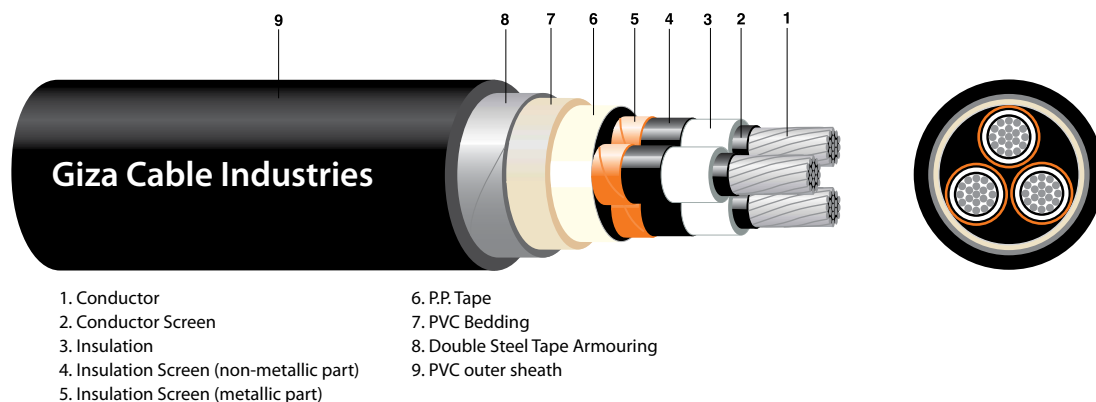


DESCRIPTION	Circular stranded compacted copper conductors, XLPE insulated, copper tape screen and PVC outer sheath. Complies with IEC 60502-2.	
CONSTRUCTION	Conductor	Plain circular compacted copper conductor to IEC 60228 class 2.
	Conductor Screen	Extruded semiconductive compound.
	Insulation	Extruded XLPE (cross-linked polyethylene) rated 90°C.
	Insulation Screen (Non- Metallic part)	An extruded layer of semiconductive compound firmly bonded to insulation. (Semi conductive compound easily strippable from insulation available on request).
	Insulation Screen (Metallic part)	Copper tape screen.
	Assembly and Filling	For 3 cores cable, the 3 cores are assembled together with non-hygroscopic fillers and covered with binder tape.
	Outer Sheath	PVC type ST2 to IEC 60502 colour black. Special PVC formulations with flame retardant and/or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Red, yellow and blue narrow tapes applied between non-metallic and metallic parts of insulation screen.	
APPLICATION	For installation on trays, in ducts or by direct burial.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement, GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Max Conductor Resistance		Operating Capacitance	Inductance		Current Rating				Approx. Overall Diameter	Approx. Weight
	Cross Sectional Area Nominal	DC at 20°C	AC at 90°C	µf/Km	Trefoil	Flat	Laid in the Ground		Laid in Free Air		mm	Kg/Km
	(mm²)	(ohm/km)	(ohm/km)		mh/Km	mh/Km	Trefoil A	Flat A	Trefoil A	Flat A		
SINGLE CORE												
ENB1-59AAPT-W	50	0.387	0.4937	0.179	0.443	0.625	195	205	215	240	26.7	1070
ENB1-64AAPT-W	70	0.268	0.3421	0.201	0.416	0.600	240	250	270	295	28.7	1320
ENB1-68AAPT-W	95	0.193	0.2465	0.221	0.397	0.581	285	295	325	360	30.0	1580
ENB1-72AAPT-W	120	0.153	0.1956	0.239	0.380	0.565	325	330	375	410	31.5	1860
ENB1-77AAPT-W	150	0.124	0.1588	0.258	0.370	0.555	360	360	425	465	33.1	2220
ENB1-80AAPT-W	185	0.0991	0.1272	0.278	0.357	0.542	405	410	485	525	35.0	2630
ENB1-83AAPT-W	240	0.0754	0.0973	0.309	0.341	0.526	465	465	470	615	37.4	3200
ENB1-87AAPT-W	300	0.0601	0.0781	0.339	0.331	0.516	515	515	530	695	40.2	3850
ENB1-88AAPT-W	400	0.0470	0.0618	0.376	0.321	0.503	550	550	585	765	43.0	4780
ENB1-89AAPT-W	500	0.0366	0.0491	0.418	0.310	0.494	610	610	655	865	46.6	5950
ENB1-90AAPT-W	630	0.0283	0.0391	0.465	0.299	0.483	665	665	720	986	50.3	7300
ENB1-91AAPT-W	800	0.0221	0.0319	0.520	0.292	0.474	730	730	870	1110	55.4	9250
THREE CORE												
ENH3-59AAPT-T	50	0.387	0.4938	0.179	0.407	-	185	-	190	-	52.8	3260
ENH3-64AAPT-T	70	0.268	0.3423	0.201	0.384	-	224	-	235	-	57.0	4050
ENH3-68AAPT-T	95	0.193	0.2469	0.221	0.366	-	265	-	285	-	59.7	4880
ENH3-72AAPT-T	120	0.153	0.1961	0.239	0.351	-	300	-	325	-	63.2	5800
ENH3-77AAPT-T	150	0.124	0.1595	0.258	0.339	-	335	-	365	-	66.7	6850
ENH3-80AAPT-T	185	0.0991	0.1282	0.278	0.329	-	380	-	415	-	70.3	8130
ENH3-83AAPT-T	240	0.0754	0.0986	0.309	0.313	-	440	-	490	-	75.7	9980
ENH3-87AAPT-T	300	0.0601	0.0799	0.339	0.304	-	490	-	550	-	81.8	12150

ALUMINIUM CONDUCTOR XLPE INSULATED STEEL TAPED ARMoured AND PVC SHEATHED 12/20(24) KV

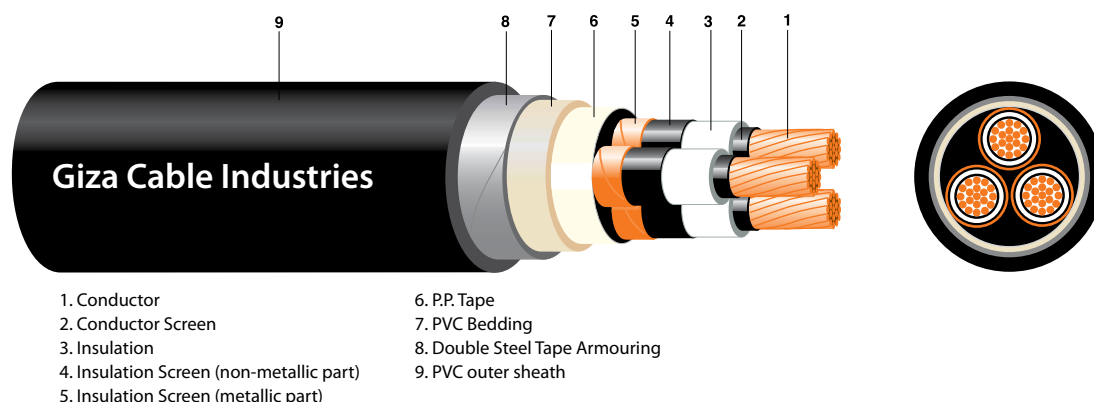


DESCRIPTION	Circular stranded compacted aluminium conductors, XLPE insulated, copper tape screened, three cores assembled together with non-hygroscopic polypropylene fillers, covered with extruded bedding, S.T. armoured and PVC sheathed. Cables comply with IEC 60502-2.	
CONSTRUCTION	Conductor	Plain circular compacted aluminium conductor to IEC 60228 class 2.
	Conductor Screen	Extruded semiconductive compound.
	Insulation	Extruded XLPE (cross-linked polyethylene) rated 90°C.
	Insulation Screen (Non- Metallic part)	An extruded layer of semiconductive compound firmly bonded to insulation. (Semi conductive compound easily strippable from insulation available on request).
	Insulation Screen (Metallic part)	Copper tape screen. Copper wires screen available on request.
	Assembly and Filling	3 cores assembled together with non-hygroscopic fillers and covered with binder tape.
	Bedding for Armour Cables	An extruded PVC layer.
	Armour	Double steel tapes, applied over the PVC bedding.
	Outer Sheath	PVC type ST2 to IEC 60502 colour black. Special PVC formulations with flame retardant and/or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Red, yellow and blue narrow tapes applied between non-metallic and metallic parts of insulation screen.	
APPLICATION	These cables are generally suitable for direct burial or for installation on trays or in ducts. Where there is a risk of mechanical damage, armoured cables should be used.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement, GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Max Conductor Resistance		Operating Capacitance	Inductance	Current Rating		Approx. Overall Diameter	Approx. Weight
	Cross Sectional Area Nominal (mm ²)	DC at 20°C (ohm/km)	AC at 90°C (ohm/km)	µf/Km	mH/Km	Laid in the Ground	Laid in Free Air	mm	Kg/Km
						A	A		
THREE CORE									
YNM3-59AAPT-T	50	0.641	0.8221	0.179	0.407	142	146	57.2	3570
YNM3-64AAPT-T	70	0.443	0.5683	0.201	0.384	175	184	60.8	4040
YNM3-68AAPT-T	95	0.320	0.4107	0.221	0.366	209	220	64.5	4550
YNM3-72AAPT-T	120	0.253	0.3251	0.239	0.351	238	250	68.1	5100
YNM3-77AAPT-T	150	0.206	0.2649	0.258	0.339	265	285	71.7	5750
YNM3-80AAPT-T	185	0.164	0.2114	0.278	0.329	300	330	75.4	6420
YNM3-83AAPT-T	240	0.125	0.1618	0.309	0.313	346	387	82.2	8160
YNM3-87AAPT-T	300	0.100	0.1302	0.339	0.304	390	440	88.0	9200

COPPER CONDUCTOR XLPE INSULATED STEEL TAPED ARMoured AND PVC SHEATHED 12/20(24) KV

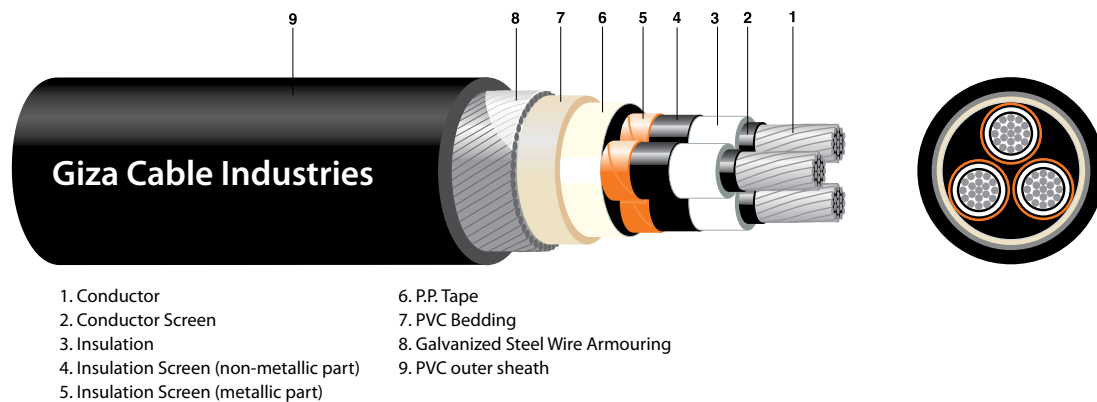


DESCRIPTION	Circular stranded compacted copper conductors, XLPE insulated, copper tape screened, three cores assembled together with non-hygroscopic polypropylene fillers, covered with extruded bedding, S.T. armoured and PVC sheathed. Cables comply with IEC 60502-2.	
CONSTRUCTION	Conductor	Plain circular compacted copper conductor to IEC 60228 class 2.
	Conductor Screen	Extruded semiconductive compound.
	Insulation	Extruded XLPE (cross-linked polyethylene) rated 90°C.
	Insulation Screen (Non- Metallic part)	An extruded layer of semiconductive compound firmly bonded to insulation. (Semi conductive compound easily strippable from insulation available on request).
	Insulation Screen (Metallic part)	Copper tape screen. Copper wires screen available on request.
	Assembly and Filling	3 cores assembled together with non-hygroscopic fillers and covered with binder tape.
	Bedding for Armour Cables	An extruded PVC layer.
	Armour	Double steel tapes, applied over the PVC bedding.
	Outer Sheath	PVC type ST2 to IEC 60502 colour black. Special PVC formulations with flame retardant and/or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Red, yellow and blue narrow tapes applied between non-metallic and metallic parts of insulation screen.	
APPLICATION	These cables are generally suitable for direct burial or for installation on trays or in ducts. Where there is a risk of mechanical damage, armoured cables should be used.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement. GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Max Conductor Resistance		Operating Capacitance	Inductance	Current Rating		Approx. Overall Diameter	Approx. Weight
	Cross Sectional Area Nominal (mm ²)	DC at 20°C (ohm/km)	AC at 90°C (ohm/km)	µf/Km	mh/Km	Laid in the Ground	Laid in Free Air	mm	Kg/Km
						A	A		
THREE CORE									
ENM3-59AAPT-T	50	0.387	0.4938	0.179	0.407	180	190	57.6	4500
ENM3-64AAPT-T	70	0.268	0.3423	0.201	0.384	220	235	61.6	5360
ENM3-68AAPT-T	95	0.193	0.2469	0.221	0.366	265	285	64.7	6300
ENM3-72AAPT-T	120	0.153	0.1961	0.239	0.351	300	325	68.0	7280
ENM3-77AAPT-T	150	0.124	0.1595	0.258	0.339	335	365	71.5	8400
ENM3-80AAPT-T	185	0.0991	0.1282	0.278	0.329	375	415	75.4	9840
ENM3-83AAPT-T	240	0.0754	0.0986	0.309	0.313	435	485	82.4	12640
ENM3-87AAPT-T	300	0.0601	0.0799	0.339	0.304	485	545	88.7	15000

ALUMINIUM CONDUCTOR XLPE INSULATED STEEL WIRES ARMoured AND PVC SHEATHED 12/20(24) KV

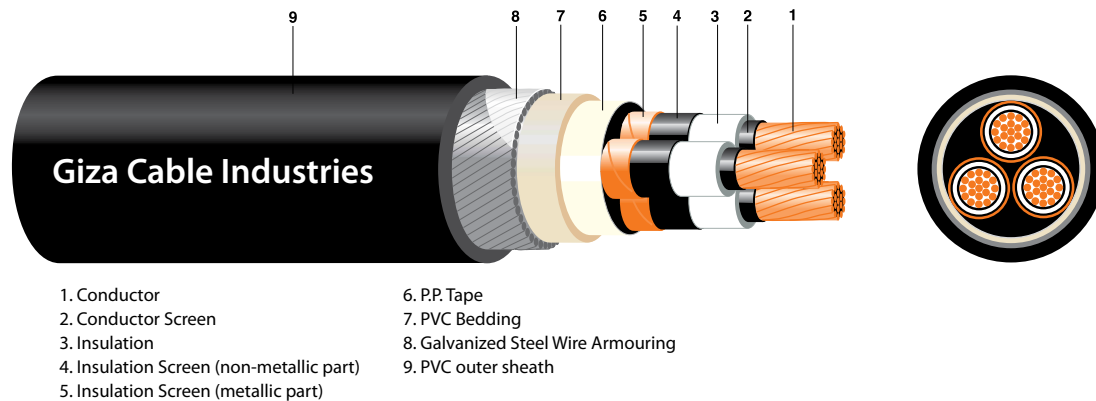


DESCRIPTION	Circular stranded compacted aluminium conductors, XLPE insulated, copper tape screened, three cores assembled together with non-hygroscopic polypropylene fillers, covered with extruded bedding, S.W. armoured and PVC sheathed. Cables comply with IEC 60502-2.	
CONSTRUCTION	Conductor	Plain circular compacted aluminium conductor to IEC 60228 class 2.
	Conductor Screen	Extruded semiconductive compound.
	Insulation	Extruded XLPE (cross-linked polyethylene), rated 90°C.
	Insulation Screen (Non- Metallic part)	An extruded layer of semiconductive compound firmly bonded to insulation. (Semi conductive compound easily strippable from insulation available on request).
	Insulation Screen (Metallic part)	Copper tape screen. Copper wires screen available on request.
	Assembly and Filling	3 cores assembled together with non-hygroscopic fillers and covered with binder tape.
	Bedding for Armour Cables	An extruded PVC layer.
	Armour	Galvanized round steel wires, applied over the PVC bedding.
	Outer Sheath	PVC type ST2 to IEC 60502 colour black. Special PVC formulations with flame retardant and/or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Red, yellow and blue narrow tapes applied between non-metallic and metallic parts of insulation screen.	
APPLICATION	These cables are generally suitable for direct burial or for installation on trays or in ducts. Where there is a risk of mechanical damage, armoured cables should be used.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement. GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Max Conductor Resistance		Operating Capacitance	Inductance	Current Rating		Approx. Overall Diameter	Approx. Weight
	Cross Sectional Area Nominal (mm ²)	DC at 20°C (ohm/km)	AC at 90°C (ohm/km)	µf/Km	mh/Km	Laid in the Ground	Laid in Free Air	mm	Kg/Km
						A	A		
THREE CORE									
YNL3-59AAPT-T	50	0.641	0.8221	0.179	0.407	145	152	60.4	5270
YNL3-64AAPT-T	70	0.443	0.5683	0.201	0.384	176	188	64.0	5850
YNL3-68AAPT-T	95	0.320	0.4107	0.221	0.366	210	225	67.7	6500
YNL3-72AAPT-T	120	0.253	0.3251	0.239	0.351	236	255	73.2	8100
YNL3-77AAPT-T	150	0.206	0.2649	0.258	0.339	265	290	77.0	8870
YNL3-80AAPT-T	185	0.164	0.2114	0.278	0.329	300	330	81.3	9700
YNL3-83AAPT-T	240	0.125	0.1618	0.309	0.313	345	390	86.2	10840
YNL3-87AAPT-T	300	0.100	0.1302	0.339	0.304	385	440	92.0	12100

COPPER CONDUCTOR XLPE INSULATED STEEL WIRES ARMoured AND PVC SHEATHED 12/20(24) KV

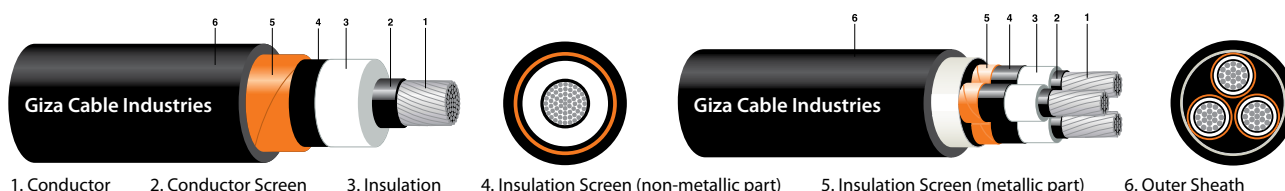


DESCRIPTION	Circular stranded compacted copper conductors, XLPE insulated, copper tape screened, three cores assembled together with non-hygroscopic polypropylene fillers, covered with extruded bedding, S.W. armoured and PVC sheathed. Cables comply with IEC 60502-2.	
CONSTRUCTION	Conductor	Plain circular compacted copper conductor to IEC 60228 class 2.
	Conductor Screen	Extruded semiconductive compound.
	Insulation	Extruded XLPE (cross-linked polyethylene), rated 90°C.
	Insulation Screen (Non- Metallic part)	An extruded layer of semiconductive compound firmly bonded to insulation. (Semi conductive compound easily strippable from insulation available on request).
	Insulation Screen (Metallic part)	Copper tape screen. Copper wires screen available on request.
	Assembly and Filling	3 cores assembled together with non-hygroscopic fillers and covered with binder tape.
	Bedding for Armour Cables	An extruded PVC layer.
	Armour	Galvanized round steel wires, applied over the PVC bedding.
	Outer Sheath	PVC type ST2 to IEC 60502 colour black. Special PVC formulations with flame retardant and/or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Red, yellow and blue narrow tapes applied between non-metallic and metallic parts of insulation screen.	
APPLICATION	These cables are generally suitable for direct burial or for installation on trays or in ducts. Where there is a risk of mechanical damage, armoured cables should be used.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement, GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Max Conductor Resistance		Operating Capacitance	Inductance	Current Rating		Approx. Overall Diameter	Approx. Weight
	Cross Sectional Area Nominal	DC at 20°C	AC at 90°C	μf/Km	mh/Km	Laid in the Ground	Laid in Free Air	mm	Kg/Km
	(mm²)	(ohm/km)	(ohm/km)			A	A		
THREE CORE									
ENL3-59AAPT-T	50	0.387	0.4938	0.179	0.407	185	195	60.8	6300
ENL3-64AAPT-T	70	0.268	0.3423	0.201	0.384	220	240	65.0	7300
ENL3-68AAPT-T	95	0.193	0.2469	0.221	0.366	265	285	68.0	8300
ENL3-72AAPT-T	120	0.153	0.1961	0.239	0.351	295	325	73.2	10400
ENL3-77AAPT-T	150	0.124	0.1595	0.258	0.339	330	365	76.8	11700
ENL3-80AAPT-T	185	0.0991	0.1282	0.278	0.329	370	410	80.5	13260
ENL3-83AAPT-T	240	0.0754	0.0986	0.309	0.313	420	475	86.5	15600
ENL3-87AAPT-T	300	0.0601	0.0799	0.339	0.304	460	530	92.8	18200

UNARMoured ALUMINIUM CONDUCTOR XLPE INSULATED AND PVC SHEATHED 18/30(36) KV

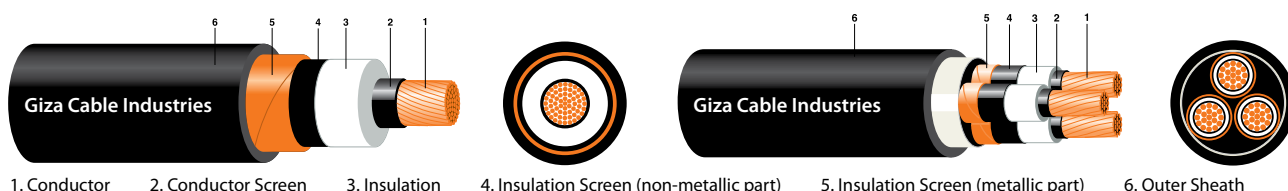


DESCRIPTION	Circular stranded compacted aluminium conductors, XLPE insulated, with copper tape screen and PVC outer sheath. Complies with IEC 60502-2.	
CONSTRUCTION	Conductor	Plain circular compacted aluminium conductor to IEC 60228 class 2.
	Conductor Screen	Extruded semiconductive compound.
	Insulation	Extruded XLPE (cross-linked polyethylene) rated 90°C.
	Insulation Screen (Non- Metallic part)	An extruded layer of semiconductive compound firmly bonded to insulation. (Semi conductive compound easily strippable from insulation available on request).
	Insulation Screen (Metallic part)	Copper tape screen.
	Assembly and Filling	For 3 cores cable, the 3 cores are assembled together with non-hygroscopic fillers and covered with binder tape.
	Outer Sheath	PVC type ST2 to IEC 60502 colour black. Special PVC formulations with flame retardant and/or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Red, yellow and blue narrow tapes applied between non-metallic and metallic parts of insulation screen.	
APPLICATION	For installation on trays, in ducts or by direct burial.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement, GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Max Conductor Resistance		Operating Capacitance	Inductance		Current Rating				Approx. Overall Diameter	Approx. Weight
		Cross Sectional Area Nominal	DC at 20°C		AC at 90°C		Trefoil	Flat	Laid in the Ground			
	(mm²)	(ohm/km)	(ohm/km)	µf/Km	mh/Km	mh/Km	Trefoil A	Flat A	Trefoil A	Flat A	mm	Kg/Km
	SINGLE CORE											
YNB1-59AAPI-W	50	0.641	0.8221	0.140	0.476	0.661	150	160	160	200	32.0	1025
YNB1-64AAPI-W	70	0.443	0.5681	0.156	0.449	0.631	190	195	205	245	33.6	1140
YNB1-68AAPI-W	95	0.320	0.4105	0.168	0.428	0.612	220	233	245	300	35.3	1270
YNB1-72AAPI-W	120	0.253	0.3247	0.183	0.41	0.594	255	265	285	345	36.7	1400
YNB1-77AAPI-W	150	0.206	0.2645	0.195	0.398	0.582	280	295	324	390	38.5	1630
YNB1-80AAPI-W	185	0.164	0.2107	0.209	0.385	0.569	320	330	372	450	40.2	1790
YNB1-83AAPI-W	240	0.125	0.1611	0.230	0.367	0.552	370	385	442	530	42.7	2050
YNB1-87AAPI-W	300	0.100	0.1291	0.252	0.355	0.539	420	433	510	608	45.3	2320
YNB1-88AAPI-W	400	0.0778	0.1009	0.278	0.343	0.526	478	485	591	692	48.5	2775
YNB1-89AAPI-W	500	0.0605	0.0791	0.306	0.332	0.525	545	550	692	800	52.1	3215
YNB1-90AAPI-W	630	0.0469	0.0621	0.338	0.318	0.503	615	620	802	920	55.8	3765
YNB1-91AAPI-W	800	0.0367	0.0495	0.378	0.308	0.492	715	785	955	1185	60.8	4515
THREE CORE												
YNH3-59AAPI-T	50	0.641	0.8221	0.140	0.449	-	150	-	160	-	62.8	3095
YNH3-64AAPI-T	70	0.443	0.5683	0.156	0.422	-	190	-	200	-	66.4	3525
YNH3-68AAPI-T	95	0.320	0.4107	0.168	0.402	-	220	-	240	-	70.0	3985
YNH3-72AAPI-T	120	0.253	0.3251	0.183	0.384	-	255	-	270	-	73.1	4435
YNH3-77AAPI-T	150	0.206	0.2649	0.195	0.371	-	280	-	310	-	76.3	4960
YNH3-80AAPI-T	185	0.164	0.2114	0.209	0.359	-	320	-	360	-	80.5	5555
YNH3-83AAPI-T	240	0.125	0.1618	0.230	0.342	-	370	-	425	-	85.6	6390
YNH3-87AAPI-T	300	0.100	0.1302	0.252	0.331	-	420	-	490	-	91.4	7350

UNARMoured COPPER CONDUCTOR XLPE INSULATED AND PVC SHEATHED 18/30(36) KV

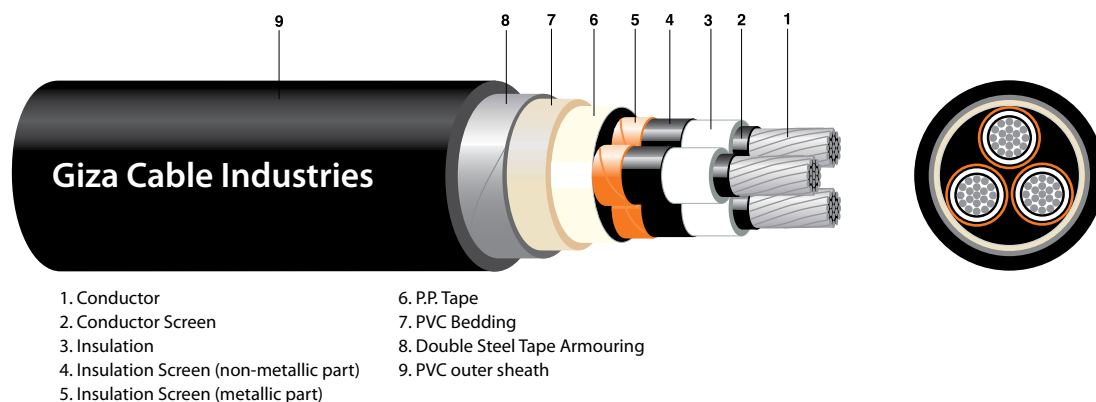


DESCRIPTION	Circular stranded compacted copper conductor, XLPE insulated, with copper tape screen and PVC outer sheath. Complies with IEC 60502-2.	
CONSTRUCTION	Conductor	Plain circular compacted copper conductor to IEC 60228 class 2.
	Conductor Screen	Extruded semiconductive compound.
	Insulation	Extruded XLPE (cross-linked polyethylene) rated 90°C.
	Insulation Screen (Non- Metallic part)	An extruded layer of semiconductive compound firmly bonded to insulation. (Semi conductive compound easily strippable from insulation available on request).
	Insulation Screen (Metallic part)	Copper tape screen.
	Assembly and Filling	For 3 cores cable, the 3 cores are assembled together with non-hygroscopic fillers and covered with binder tape.
	Outer Sheath	PVC type ST2 to IEC 60502 colour black. Special PVC formulations with flame retardant and/or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Red, yellow and blue narrow tapes applied between non-metallic and metallic parts of insulation screen.	
APPLICATION	For installation on trays, in ducts or by direct burial.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement. GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Max Conductor Resistance		Operating Capacitance	Inductance		Current Rating				Approx. Overall Diameter	Approx. Weight
		Cross Sectional Area Nominal	DC at 20°C		AC at 90°C	µf/Km	Trefoil	Flat	Laid in the Ground			
	(mm²)	(ohm/km)	(ohm/km)	mh/Km	mh/Km		Trefoil A	Flat A	Trefoil A	Flat A	mm	Kg/Km
		SINGLE CORE										
ENB1-59AAPI-W	50	0.387	0.4937	0.140	0.476	0.661	205	210	210	210	32.1	1330
ENB1-64AAPI-W	70	0.268	0.3421	0.156	0.449	0.631	240	250	270	295	33.9	1580
ENB1-68AAPI-W	95	0.193	0.2465	0.168	0.428	0.612	285	295	330	360	35.3	1870
ENB1-72AAPI-W	120	0.153	0.1956	0.183	0.410	0.594	325	335	380	415	36.7	2160
ENB1-77AAPI-W	150	0.124	0.1588	0.195	0.398	0.582	360	365	425	465	38.5	2550
ENB1-80AAPI-W	185	0.0991	0.1272	0.209	0.385	0.569	405	410	490	525	40.2	2950
ENB1-83AAPI-W	240	0.0754	0.0973	0.230	0.367	0.552	465	470	570	615	42.8	3570
ENB1-87AAPI-W	300	0.0601	0.0781	0.252	0.355	0.539	520	525	650	695	45.7	4250
ENB1-88AAPI-W	400	0.0470	0.0618	0.278	0.343	0.526	555	585	745	770	48.5	5190
ENB1-89AAPI-W	500	0.0366	0.0491	0.306	0.332	0.525	610	655	850	870	52.0	6380
ENB1-90AAPI-W	630	0.0283	0.0391	0.338	0.318	0.503	670	730	975	990	55.8	7750
ENB1-91AAPI-W	800	0.0221	0.0319	0.378	0.308	0.492	845	915	1150	1340	60.8	9700
THREE CORE												
ENH3-59AAPI-T	50	0.387	0.4938	0.140	0.449	-	195	-	215	-	63.0	4000
ENH3-64AAPI-T	70	0.268	0.3423	0.156	0.422	-	225	-	290	-	67.1	4850
ENH3-68AAPI-T	95	0.193	0.2469	0.168	0.402	-	265	-	330	-	70.0	5740
ENH3-72AAPI-T	120	0.153	0.1961	0.183	0.384	-	300	-	370	-	73.1	6670
ENH3-77AAPI-T	150	0.124	0.1595	0.195	0.371	-	340	-	420	-	76.3	7690
ENH3-80AAPI-T	185	0.0991	0.1282	0.209	0.359	-	380	-	490	-	82.2	9420
ENH3-83AAPI-T	240	0.0754	0.0986	0.230	0.342	-	440	-	555	-	86.0	10900
ENH3-87AAPI-T	300	0.0601	0.0799	0.252	0.331	-	490	-	640	-	92.0	13160

ALUMINIUM CONDUCTOR XLPE INSULATED STEEL TAPED ARMoured AND PVC SHEATHED 18/30(36) KV

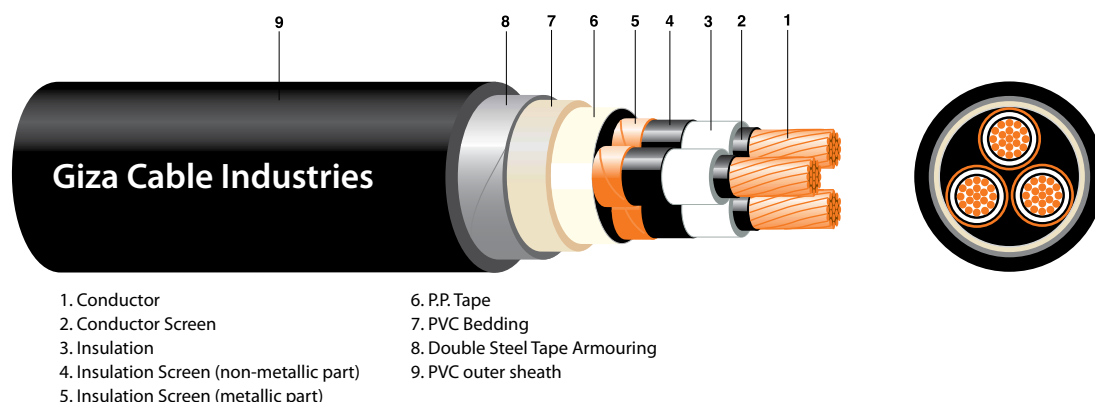


DESCRIPTION	Circular stranded compacted aluminium conductors, XLPE insulated, copper tape screened, three cores assembled together with non-hygroscopic polypropylene fillers, covered with extruded bedding, S.T. armoured and PVC sheathed. Cables comply with IEC 60502-2.	
CONSTRUCTION	Conductor	Plain circular compacted aluminium conductor to IEC 60228 class 2.
	Conductor Screen	Extruded semiconductive compound.
	Insulation	Extruded XLPE (cross-linked polyethylene), rated 90°C.
	Insulation Screen (Non- Metallic part)	An extruded layer of semiconductive compound firmly bonded to insulation. (Semi conductive compound easily strippable from insulation available on request).
	Insulation Screen (Metallic part)	Copper tape screen. Copper wires screen available on request.
	Assembly and Filling	3 cores assembled together with non-hygroscopic fillers and covered with binder tape.
	Bedding for Armour Cables	An extruded PVC layer.
	Armour	Double steel tapes applied over the PVC bedding.
	Outer Sheath	PVC type ST2 to IEC 60502 colour black. Special PVC formulations with flame retardant and/or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Red, yellow and blue narrow tapes applied between non-metallic and metallic parts of insulation screen.	
APPLICATION	These cables are generally suitable for direct burial or for installation on trays or in ducts. Where there is a risk of mechanical damage, armoured cables should be used.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement. GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Max Conductor Resistance		Operating Capacitance	Inductance	Current Rating		Approx. Overall Diameter	Approx. Weight
	Cross Sectional Area Nominal (mm ²)	DC at 20°C (ohm/km)	AC at 90°C (ohm/km)	µf/Km	mh/Km	Laid in the Ground	Laid in Free Air	mm	Kg/Km
						A	A		
THREE CORE									
YNM3-59AAPI-T	50	0.641	0.8221	0.140	0.449	144	149	69.2	4850
YNM3-64AAPI-T	70	0.443	0.5683	0.156	0.422	176	184	73.0	5420
YNM3-68AAPI-T	95	0.320	0.4107	0.168	0.402	209	222	76.7	6000
YNM3-72AAPI-T	120	0.253	0.3251	0.183	0.384	238	255	81.3	7340
YNM3-77AAPI-T	150	0.206	0.2649	0.195	0.371	266	288	84.8	8050
YNM3-80AAPI-T	185	0.164	0.2114	0.209	0.359	301	331	88.7	8750
YNM3-83AAPI-T	240	0.125	0.1618	0.230	0.342	349	389	94.3	9850
YNM3-87AAPI-T	300	0.100	0.1302	0.252	0.331	394	444	100.0	11100

COPPER CONDUCTOR XLPE INSULATED STEEL TAPED ARMoured AND PVC SHEATHED 18/30(36) KV

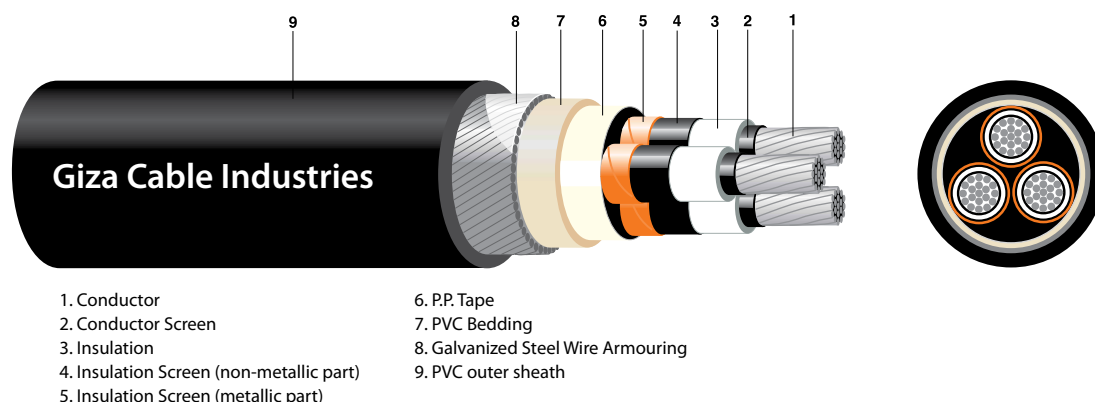


DESCRIPTION	Circular stranded compacted copper conductors, XLPE insulated, copper tape screened, three cores assembled together with non-hygroscopic polypropylene fillers, covered with extruded bedding, S.T. armoured and PVC sheathed. Cables comply with IEC 60502-2.	
CONSTRUCTION	Conductor	Plain circular compacted copper conductor to IEC 60228 class 2.
	Conductor Screen	Extruded semiconductive compound.
	Insulation	Extruded XLPE (cross-linked polyethylene), rated 90°C.
	Insulation Screen (Non- Metallic part)	An extruded layer of semiconductive compound firmly bonded to insulation. (Semi conductive compound easily strippable from insulation available on request).
	Insulation Screen (Metallic part)	Copper tape screen. Copper wires screen available on request.
	Assembly and Filling	3 cores assembled together with non-hygroscopic fillers and covered with binder tape.
	Bedding for Armour Cables	An extruded PVC layer.
	Armour	Double steel tapes applied over the PVC bedding.
	Outer Sheath	PVC type ST2 to IEC 60502 colour black. Special PVC formulations with flame retardant and/or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Red, yellow and blue narrow tapes applied between non-metallic and metallic parts of insulation screen.	
APPLICATION	These cables are generally suitable for direct burial or for installation on trays or in ducts. Where there is a risk of mechanical damage, armoured cables should be used.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement, GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Max Conductor Resistance		Operating Capacitance	Inductance	Current Rating		Approx. Overall Diameter	Approx. Weight
	Cross Sectional Area Nominal	DC at 20°C	AC at 90°C	μf/Km	mh/Km	Laid in the Ground	Laid in Free Air	mm	Kg/Km
	(mm²)	(ohm/km)	(ohm/km)			A	A		
	THREE CORE								
ENM3-59AAPI-T	50	0.387	0.4938	0.140	0.449	182	195	69.4	5730
ENM3-64AAPI-T	70	0.268	0.3423	0.156	0.422	220	240	73.7	6740
ENM3-68AAPI-T	95	0.193	0.2469	0.168	0.402	260	290	76.7	7730
ENM3-72AAPI-T	120	0.153	0.1961	0.183	0.384	295	325	81.3	9750
ENM3-77AAPI-T	150	0.124	0.1595	0.195	0.371	330	370	84.7	10700
ENM3-80AAPI-T	185	0.0991	0.1282	0.209	0.359	365	415	88.7	12150
ENM3-83AAPI-T	240	0.0754	0.0986	0.230	0.342	415	475	94.5	14350
ENM3-87AAPI-T	300	0.0601	0.0799	0.252	0.331	460	535	100.6	16850

ALUMINIUM CONDUCTOR XLPE INSULATED STEEL WIRES ARMoured AND PVC SHEATHED 18/30(36) KV

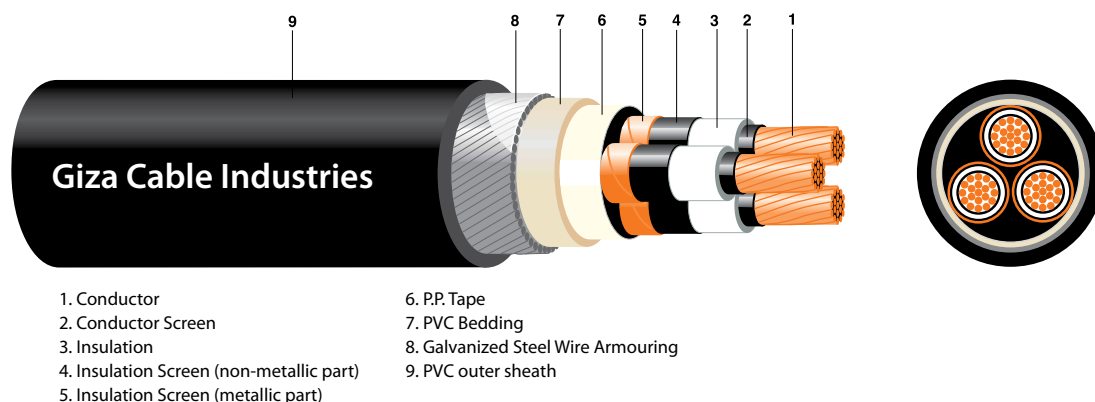


DESCRIPTION	Circular stranded compacted aluminium conductors, XLPE insulated, copper tape screened, three cores assembled together with non-hygroscopic polypropylene fillers, covered with extruded bedding, S.W. armoured and PVC sheathed. Cables comply with IEC 60502-2.	
CONSTRUCTION	Conductor	Plain circular compacted aluminium conductor to IEC 60228 class 2.
	Conductor Screen	Extruded semiconductive compound.
	Insulation	Extruded XLPE (cross-linked polyethylene), rated 90°C.
	Insulation Screen (Non- Metallic part)	An extruded layer of semiconductive compound firmly bonded to insulation. (Semi conductive compound easily strippable from insulation available on request).
	Insulation Screen (Metallic part)	Copper tape screen. Copper wires screen available on request.
	Assembly and Filling	3 cores assembled together with non-hygroscopic fillers and covered with binder tape.
	Bedding for Armour Cables	An extruded PVC layer.
	Armour	Galvanized round steel wires, applied over the PVC bedding.
	Outer Sheath	PVC type ST2 to IEC 60502 colour black. Special PVC formulations with flame retardant and/or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Red, yellow and blue narrow tapes applied between non-metallic and metallic parts of insulation screen.	
APPLICATION	These cables are generally suitable for direct burial or for installation on trays or in ducts. Where there is a risk of mechanical damage, armoured cables should be used.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement, GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Max Conductor Resistance		Operating Capacitance	Inductance	Current Rating		Approx. Overall Diameter	Approx. Weight
	Cross Sectional Area Nominal	DC at 20°C	AC at 90°C	µf/Km	mh/Km	Laid in the Ground	Laid in Free Air	mm	Kg/Km
	(mm²)	(ohm/km)	(ohm/km)			A	A		
	THREE CORE								
YNL3-59AAPI-T	50	0.641	0.8221	0.140	0.449	145	152	74.3	7840
YNL3-64AAPI-T	70	0.443	0.5683	0.156	0.422	177	188	78.3	8600
YNL3-68AAPI-T	95	0.320	0.4107	0.168	0.402	210	225	81.8	9300
YNL3-72AAPI-T	120	0.253	0.3251	0.183	0.384	238	259	85.2	10000
YNL3-77AAPI-T	150	0.206	0.2649	0.195	0.371	265	291	88.7	10800
YNL3-80AAPI-T	185	0.164	0.2114	0.209	0.359	300	332	92.7	11650
YNL3-83AAPI-T	240	0.125	0.1618	0.230	0.342	346	391	98.2	12920
YNL3-87AAPI-T	300	0.100	0.1302	0.252	0.331	387	442	104.1	14400

COPPER CONDUCTOR XLPE INSULATED STEEL WIRES ARMoured AND PVC SHEATHED 18/30(36) KV



DESCRIPTION	Circular stranded compacted copper conductors, XLPE insulated, copper tape screened, three cores assembled together with non-hygroscopic polypropylene fillers, covered with extruded bedding, S.W. armoured and PVC sheathed. Cables comply with IEC 60502-2.	
CONSTRUCTION	Conductor	Plain circular compacted copper conductor to IEC 60228 class 2.
	Conductor Screen	Extruded semiconductive compound.
	Insulation	Extruded XLPE (cross-linked polyethylene), rated 90°C.
	Insulation Screen (Non- Metallic part)	An extruded layer of semiconductive compound firmly bonded to insulation. (Semi conductive compound easily strippable from insulation available on request).
	Insulation Screen (Metallic part)	Copper tape screen. Copper wires screen available on request.
	Assembly and Filling	3 cores assembled together with non-hygroscopic fillers and covered with binder tape.
	Bedding for Armour Cables	An extruded PVC layer.
	Armour	Galvanized round steel wires, applied over the PVC bedding.
	Outer Sheath	PVC type ST2 to IEC 60502 colour black. Special PVC formulations with flame retardant and/or anti-termite properties available on request.
COLOURS FOR CORE IDENTIFICATION	Red, yellow and blue narrow tapes applied between non-metallic and metallic parts of insulation screen.	
APPLICATION	These cables are generally suitable for direct burial or for installation on trays or in ducts. Where there is a risk of mechanical damage, armoured cables should be used.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement. GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors	Max Conductor Resistance		Operating Capacitance	Inductance	Current Rating		Approx. Overall Diameter	Approx. Weight
	Cross Sectional Area Nominal (mm ²)	DC at 20°C (ohm/km)	AC at 90°C (ohm/km)	µf/Km	mh/Km	Laid in the Ground	Laid in Free Air	mm	Kg/Km
						A	A		
THREE CORE									
ENL3-59AAPI-T	50	0.387	0.4938	0.140	0.449	185	195	74.7	8930
ENL3-64AAPI-T	70	0.268	0.3423	0.156	0.422	220	240	78.8	10050
ENL3-68AAPI-T	95	0.193	0.2469	0.168	0.402	265	290	81.8	11200
ENL3-72AAPI-T	120	0.153	0.1961	0.183	0.384	300	330	85.2	12550
ENL3-77AAPI-T	150	0.124	0.1595	0.195	0.371	335	370	88.5	13620
ENL3-80AAPI-T	185	0.0991	0.1282	0.209	0.359	375	420	92.6	15270
ENL3-83AAPI-T	240	0.0754	0.0986	0.230	0.342	435	485	98.5	17700
ENL3-87AAPI-T	300	0.0601	0.0799	0.252	0.331	485	550	104.7	20450

DERATING FACTORS FOR MEDIUM VOLTAGE CABLES

Variations in air ambient temperature

Insulation	Air ambient temperature (°C)						
	25	30	35	40	45	50	55
XLPE	1.14	1.10	1.05	1.00	0.95	0.89	0.84

Variations in ground temperature

Insulation	Ground temperature (°C)						
	20	25	30	35	40	45	50
XLPE	1.09	1.04	1.00	0.95	0.90	0.85	0.80

Variations in depth of burial (to centre of cable or trefoil group of cables)

Depth of laying (m)	Up to 185 mm ²	Above 185 mm ²
0.80	1.00	1.00
1.00	0.98	0.97
1.25	0.96	0.95
1.50	0.95	0.93
1.75	0.94	0.91
2.00	0.93	0.90
2.50	0.91	0.88
3.00 or more	0.90	0.86

Variations in depth of burial (to centre of duct or trefoil group of ducts)

Depth of laying (m)	Single core	Multi core
0.80	1.00	1.00
1.00	0.97	0.99
1.25	0.95	0.97
1.50	0.93	0.96
1.75	0.92	0.95
2.00	0.91	0.94
2.50	0.89	0.93
3.00 or more	0.88	0.92

Variations in thermal resistivity of soil for cables in duct banks (average value)

Conductor mm ²	Soil thermal resistivity (K.m/W)						
	0.8	0.9	1.0	1.2	1.5	2.0	2.5
SINGLE CORE CABLES							
Up to 150	1.10	1.07	1.04	1.00	0.95	0.87	0.81
from 185 - 400	1.11	1.08	1.05	1.00	0.94	0.86	0.79
from 500 - 630	1.13	1.09	1.06	1.00	0.93	0.84	0.77
from 800 - 1200	1.14	1.10	1.07	1.00	0.92	0.83	0.75
MULTI-CORE CABLES							
from 50 - 150	1.07	1.05	1.03	1.00	0.96	0.90	0.85
from 185 - 400	1.09	1.06	1.04	1.00	0.95	0.87	0.82

Variations in thermal resistivity of soil (average value)

Conductor mm ²	Soil thermal resistivity (K.m/W)						
	0.8	0.9	1.0	1.2	1.5	2.0	2.5
SINGLE CORE CABLES							
from 50 - 150	1.16	1.11	1.07	1.00	0.91	0.81	0.73
from 185 - 400	1.17	1.12	1.07	1.00	0.90	0.80	0.72
from 500 - 630	1.18	1.13	1.08	1.00	0.90	0.79	0.71
from 800 - 1200	1.19	1.14	1.08	1.00	0.89	0.78	0.70
MULTI-CORE CABLES							
from 50 - 150	1.14	1.10	1.07	1.00	0.93	0.84	0.76
from 185 - 400	1.16	1.11	1.07	1.00	0.92	0.82	0.74

Grouping variations for three single core cables in trefoil, and flat touching and horizontal (direct buried)

Number of circuits	Spacing (between centres of groups)				
	Trefoil	Flat			
		Touching	0.15m	0.30m	0.45m
2	0.78	0.80	0.81	0.85	0.88
3	0.66	0.70	0.71	0.76	0.80
4	0.61	0.65	0.65	0.72	0.76
5	0.56	0.59	0.61	0.68	0.73
6	0.53	0.56	0.58	0.66	0.72

Grouping variations for multicore cables in flat formation (direct buried)

Number of cables in group	Spacing (between centres of groups)				
	Touching	0.15m	0.30m	0.45m	0.60m
2	0.80	0.84	0.88	0.90	0.92
3	0.70	0.74	0.79	0.83	0.86
4	0.64	0.69	0.75	0.79	0.83
5	0.58	0.65	0.72	0.77	0.80
6	0.56	0.62	0.70	0.75	0.79

Grouping variations for three single core cables in trefoil, and flat touching and horizontal (in single way duct banks)

Number of circuits	Spacing (between duct centres)		
	Touching	0.45m	0.60m
2	0.85	0.88	0.90
3	0.76	0.80	0.83
4	0.71	0.76	0.80
5	0.67	0.73	0.77
6	0.65	0.71	0.76

Variations for multicore cables in single way duct banks in horizontal formation

Number of ducts in group	Spacing (between duct centres)			
	Touching	0.30m	0.45m	0.60m
2	0.88	0.90	0.93	0.94
3	0.79	0.83	0.86	0.88
4	0.74	0.80	0.83	0.86
5	0.70	0.76	0.81	0.84
6	0.68	0.74	0.79	0.83

THERMAL SHORT-CIRCUIT CURRENT RATINGS

The following formulae have been derived from IEC 60724:

Copper conductor $I_c = \frac{0.143 \times q}{\sqrt{t}}$ $I_s = \frac{0.148 \times q}{\sqrt{t}}$

Aluminium conductor $I_c = \frac{0.0937 \times q}{\sqrt{t}}$ $I_s = \frac{0.148 \times q}{\sqrt{t}}$

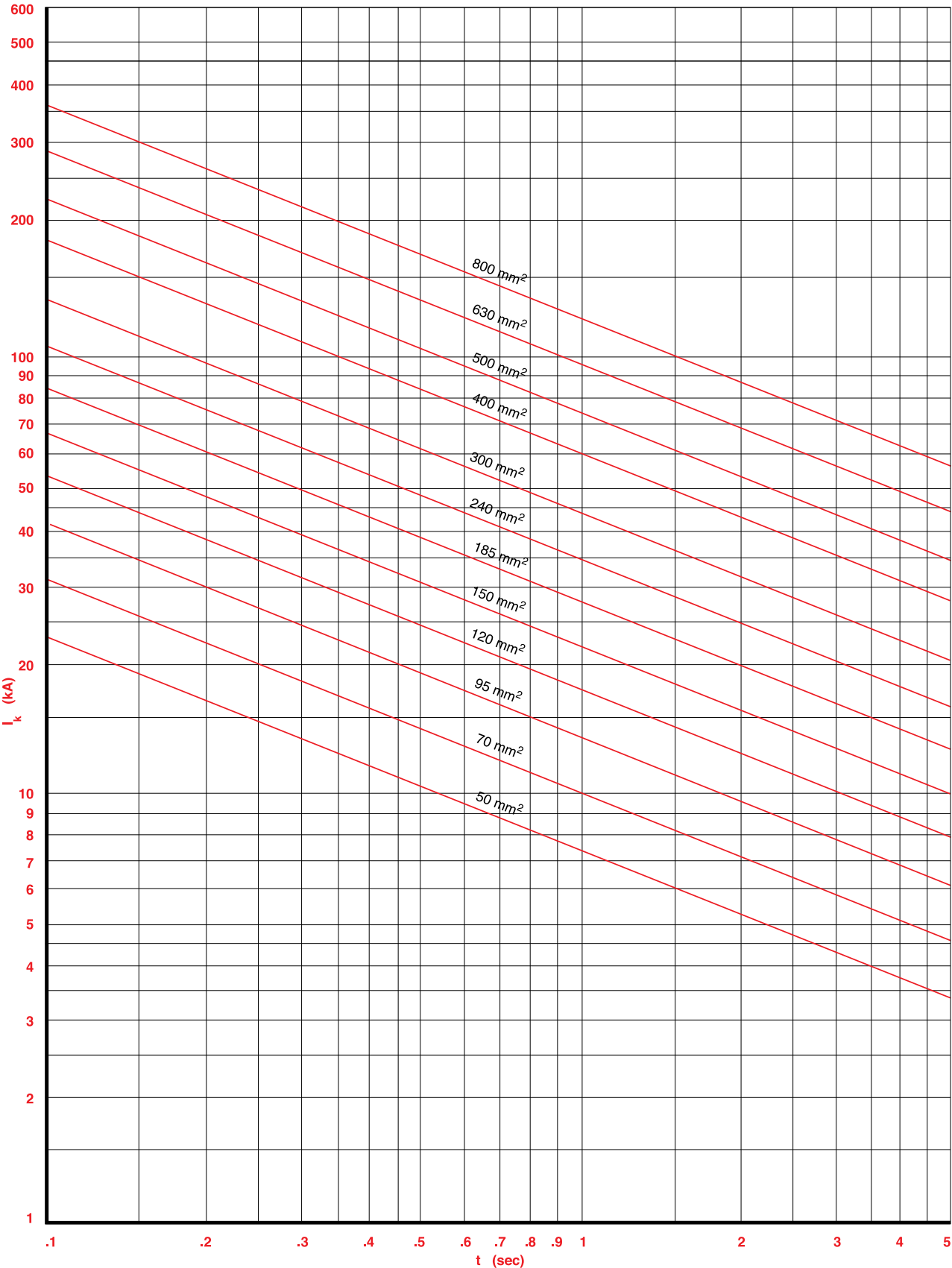
Where

I_c = Permissible short-circuit current for conductor (KA)
 t = Short circuit time in seconds

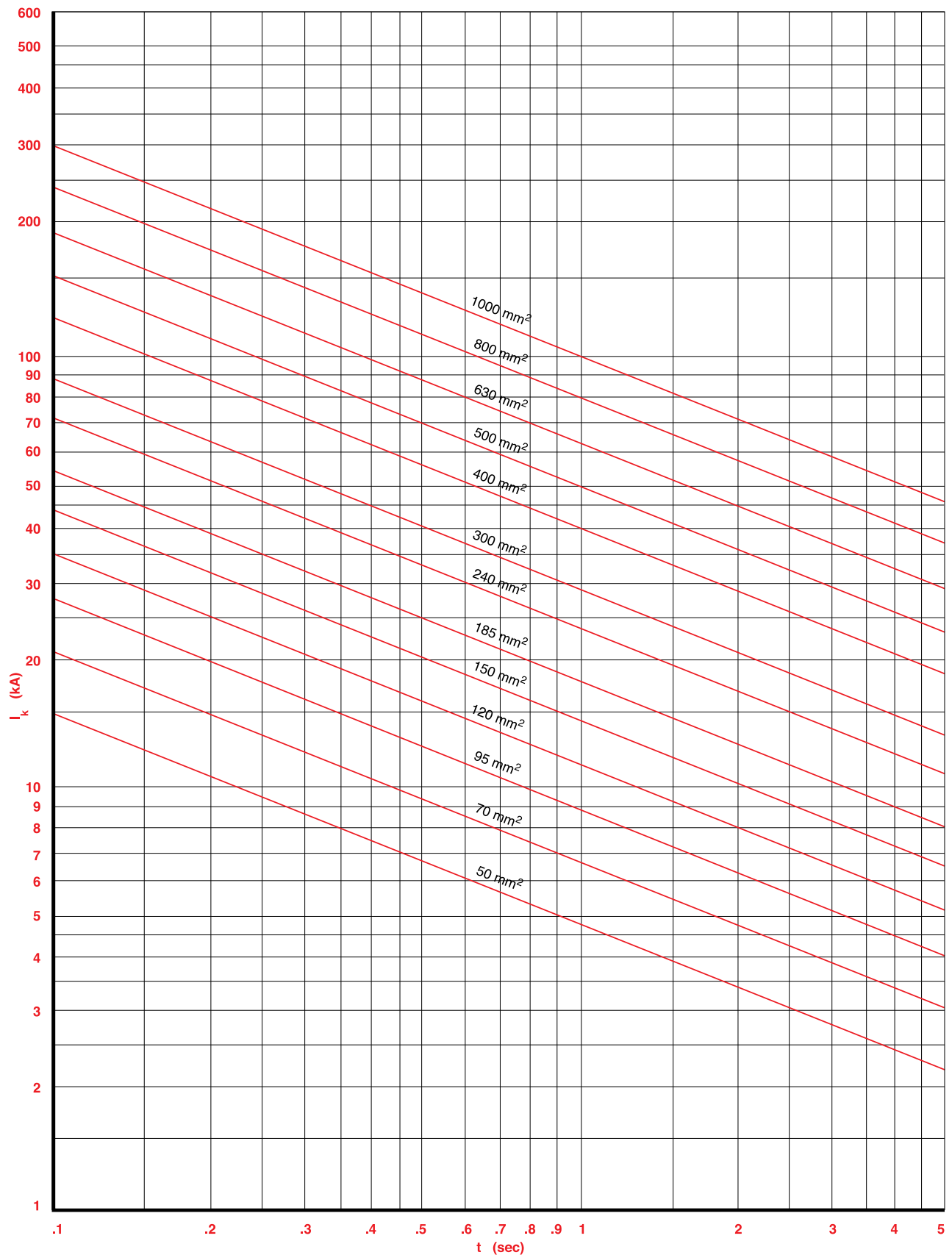
I_s = Permissible short-circuit current for screen (KA)
 q = Nominal conductor area in mm² or nominal screen area in mm²

Conductor temp. before short circuit 90°C
 Conductor temp. after short circuit 250°C
 Screen temp. before short circuit 80°C
 Screen temp. after short circuit 250°C

COPPER CONDUCTOR XLPE INSULATION



ALUMINIUM CONDUCTOR XLPE INSULATION



CABLE HANDLING AND LAYING PARAMETERS

MINIMUM RECOMMENDED BENDING RADII

Bending of power cables at short radii may permanently damage the insulation, shielding or jacket and ultimately result in a cable failure. It is therefore, very important that no sharp bends or twists are made.

Bending radii

Cable Type	Radius (mm)
Single core cables Armoured or Unarmoured	12 D
Multicore cables Armoured	12 D
Multicore cables Unarmoured	10 D

Where D = Overall diameter of the cable

PULLING TENSIONS AND SIDE WALL PRESSURES

The maximum allowable pulling force is dependent on the cable design, the mechanical limitations, the conductor material and the method of laying and pulling the cables. Each factor has finite limitations and should under no circumstances be exceeded.

The maximum pulling tension should not exceed as follows:

- A) Cable equipped with a pulling eye attached to the conductor.
1. The maximum tension in kgs is 5 times the conductor cross sectional area in mm² for copper and 3 times the cross-sectional area for aluminium.
 2. For multicore cables, the maximum tension can be increased by number of cores in the cable, provided pulling eye is attached to each conductor.
- B) Cable equipped with a cable stocking over the sheath.
1. For unarmoured cables, the maximum tension in kg is 0.5 times the square of the overall cable diameter (i.e. $0.5D^2$).
 2. For armoured cables, the maximum tension in kg is 1.2 times the square of the overall diameter (i.e. $1.2D^2$).
 3. For laid up cables, when all conductors have the same cross-sectional area, the equivalent overall diameter of the assembly is given by:

$$D_e = k \cdot D \text{ mm} \quad \text{Where:}$$

D_e	=	assembly diameter in mm
k	=	2 for 2 cables
k	=	2.16 for 3 cables
k	=	2.42 for 4 cables
D	=	overall cable diameter

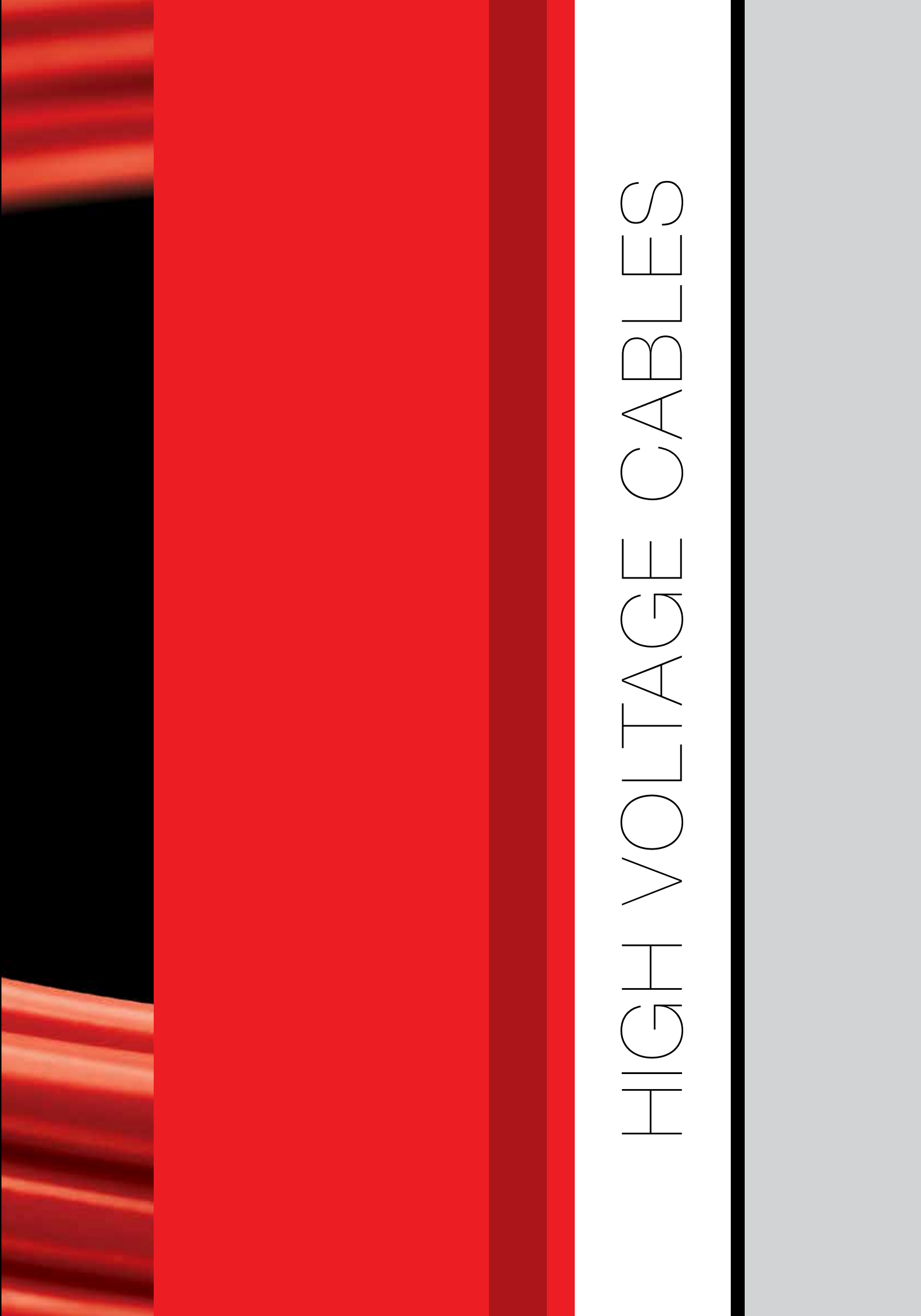
Maximum side wall pressure is given by the following formula:

$$\text{Max. side wall pressure} = \frac{\text{Max. Pulling tension}}{\text{Min. Bending radius}}$$

The maximum side wall pressure shall not exceed 500 kg/m, i.e., the tension in the cable in kgs as it leaves the bend shall not exceed 500 times the radius of the bend in meters.

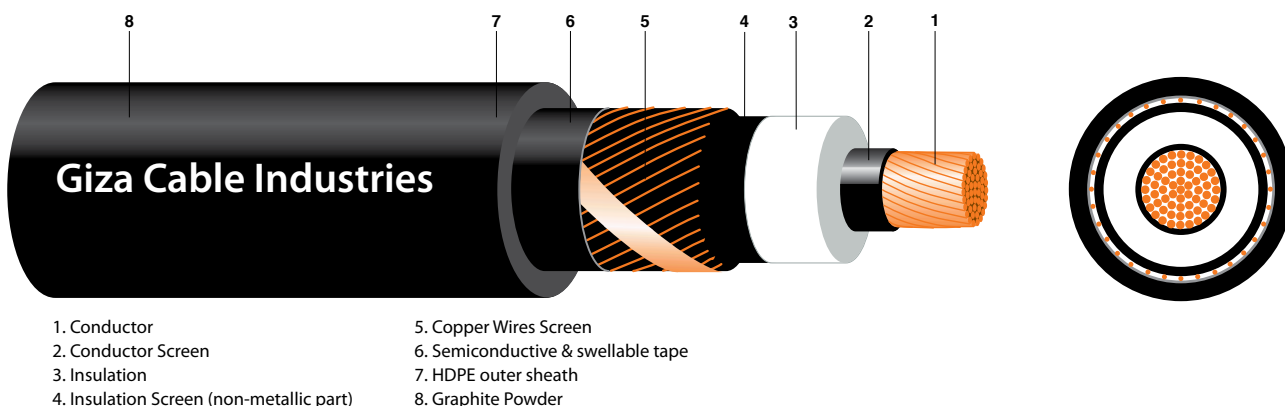
It is acceptable to pull the cable in either direction. As a matter of fact it is an intelligent design to select pulling direction resulting in minimum stress on both the cable and the pulling equipment. This, however, is controlled by the limitations of working space at the ends in consideration.





HIGH VOLTAGE CABLES

COPPER CONDUCTOR XLPE INSULATED, COPPER WIRE SCREEN HDPE SHEATHED 38/66(72.5) KV

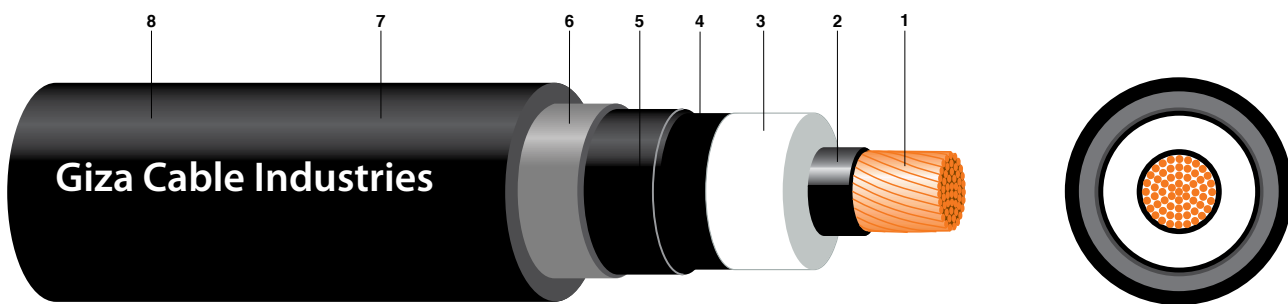


CONSTRUCTION	Conductor	The conductor shall be plain annealed stranded compacted copper (Aluminium available on request) in accordance with IEC 60228, class 2 and using water swellable powder between conductor layers, bounded with swelling semiconductive water blocking tape.
	Conductor Screen	The conductor screen shall consist of a thermosetting, semiconducting, extruded compound, which is applied to and completely shields the conductor. It shall be compatible with the conductor metal and shall be uniformly and firmly bonded to the overlying insulation and shall be easily strippable from the conductor.
	Insulation	The insulation shall be high-quality thermosetting cross-linked polyethylene (XLPE). The insulation shall have high dielectric and impulse strength.
	Insulation Screen	The insulation screen shall consist of a thermosetting semi-conducting crosslinkable compound having firm adhesion to the insulation. i.e. the insulation screen shall be firmly bonded to the insulation. The conductor screen, insulation and insulation screen shall be extruded in one process by triple extruder.
	Metallic Screen	A layer of plain annealed copper wires applied over the insulation screen. A copper binder tape shall be applied over wires as open helix.
	Water barrier	Semi-conductive swellable tape shall be applied under and over the metallic screen with suitable overlap as longitudinal water barrier.
	Outer Sheath	An extruded layer of HDPE compound shall be applied over the semi-conductive and swellable tape. Further a layer of graphite coating shall be applied over outer sheath as electrode for DC voltage sheath testing.
APPLICATION	For high voltage power transmission.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement. GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductors		Capacitance	Thickness of Conductor Screen	Thickness of Insulation	Thickness of Insulation Screen	No. of screen wires x wire diameter	Thickness of Outer Sheath	Approx. Outer Diameter of Cable	Approx. Weight of Cable
	Cross Sectional Area Nominal (mm ²)	Max. DC Resistance at 20°C Ω/Km	μf/Km	mm	mm	mm	mm	mm	mm	Kg/Km
ENB1-77EAPW-W	150	0.1240	0.173	1.0	13.0	1.3	30 x 2.0	3.5	52.0	3900
ENB1-80EAPW-W	185	0.0991	0.186	1.0	13.0	1.3	30 x 2.0	3.5	53.7	4350
ENB1-83EAPW-W	240	0.0754	0.203	1.0	13.0	1.3	30 x 2.0	3.5	62.2	5000
ENB1-87EAPW-W	300	0.0601	0.221	1.0	13.0	1.3	30 x 2.0	3.5	64.6	5700
ENB1-88EAPW-W	400	0.0470	0.239	1.0	13.0	1.3	30 x 2.0	3.5	67.2	6580
ENB1-89EAPW-W	500	0.0366	0.263	1.0	13.0	1.3	30 x 2.0	4.0	70.6	7900
ENB1-90EAPW-W	630	0.0283	0.288	1.0	13.0	1.3	30 x 2.0	4.0	74.1	9285
ENB1-91EAPW-W	800	0.0221	0.319	1.0	13.0	1.3	30 x 2.0	4.0	77.4	11100

COPPER CONDUCTOR XLPE INSULATED LEAD AND HDPE SHEATHED 38/66(72.5) KV



- | | |
|--|------------------------------------|
| 1. Conductor | 5. Semiconductive & swellable tape |
| 2. Conductor Screen | 6. Extruded lead |
| 3. Insulation | 7. HDPE outer sheath |
| 4. Insulation Screen (non-metallic part) | 8. Graphite Powder |

CONSTRUCTION	Conductor	The conductor shall be plain annealed stranded compacted copper (Aluminium available on request) in accordance with IEC 60228, class 2 and using water swellable powder between conductor layers, bounded with swelling semiconductive water blocking tape.
	Conductor Screen	The conductor screen shall consist of a thermosetting, semiconducting, extruded compound, which is applied to and completely shields the conductor. It shall be compatible with the conductor metal and shall be uniformly and firmly bonded to the overlying insulation and shall be easily strippable from the conductor.
	Insulation	The insulation shall be high-quality thermosetting cross-linked polyethylene (XLPE). The insulation shall have high dielectric and impulse strength.
	Insulation Screen	The insulation screen shall consist of a thermosetting semiconducting crosslinkable compound having firm adhesion to the insulation. i.e. the insulation screen shall be firmly bonded to the insulation. The conductor screen, insulation and insulation screen shall be extruded in one process by triple extruder.
	Metallic Screen	Continuous layer of lead is extruded over the semiconductive and swellable tape.
	Water barrier	Semi-conductive swellable tape shall be applied under and over the metallic screen with suitable overlap as longitudinal water barrier.
	Outer Sheath	An extruded layer of HDPE compound shall be applied over the extruded layer of lead. Further a layer of graphite coating shall be applied over outer sheath as electrode for DC voltage sheath testing.
APPLICATION	For high voltage power transmission.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement. GC3 reserve the right to alter cable specifications.

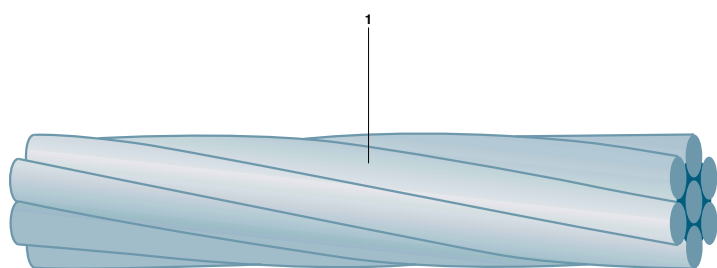
Catalogue No.	Conductors		Capacitance	Thickness of Conductor Screen	Thickness of Insulation	Thickness of Insulation Screen	Thickness of lead	Thickness of Outer Sheath	Approx. Outer Diameter of Cable	Approx. Weight of Cable
	Cross Sectional Area Nominal (mm ²)	Max. DC Resistance at 20°C Ω/Km	μf/Km	mm	mm	mm	mm	mm	mm	Kg/Km
ENZ1-77EAPW-C	150	0.1240	0.173	1.0	13.0	1.3	2.0	3.5	56.9	6300
ENZ1-80EAPW-C	185	0.0991	0.186	1.0	13.0	1.3	2.0	3.5	58.6	7150
ENZ1-83EAPW-C	240	0.0754	0.203	1.0	13.0	1.3	2.1	3.5	63.2	9260
ENZ1-87EAPW-C	300	0.0601	0.221	1.0	13.0	1.3	2.2	3.5	64.8	10030
ENZ1-88EAPW-C	400	0.0470	0.239	1.0	13.0	1.3	2.3	3.5	67.7	11230
ENZ1-89EAPW-C	500	0.0366	0.263	1.0	13.0	1.3	2.4	4.0	70.2	12200
ENZ1-90EAPW-C	630	0.0283	0.288	1.0	13.0	1.3	2.4	4.0	73.8	13300
ENZ1-91EAPW-C	800	0.0221	0.319	1.0	13.0	1.3	2.6	4.0	78.6	15200





OVERHEAD CABLES

BARE HARD DRAWN STRANDED ALL ALUMINIUM CONDUCTORS (AAC)



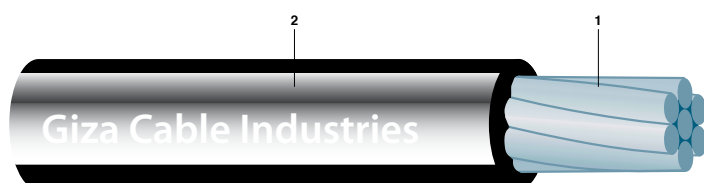
1. Bare Aluminium Conductor

DESCRIPTION	<p>All aluminium conductors (AAC) are usually manufactured to meet the latest revisions of the following specifications:</p> <p>ASTM B231 BS:215: Part 1 - BS EN 50182 DIN 48 201 IEC:61089</p> <p>Sizes and stranding in accordance with above specifications may be found in the following tables. Any other sizes and stranding will be manufactured by request according to any international or customer specification. Permissible variations of shipping lengths and random lengths, if not otherwise agreed, shall be in accordance with relevant standards.</p>
FEATURES	<p>1. Good-corrosion resistance. 2. Easily handled and installed. 3. Very light in weight for overhead lines.</p>
APPLICATION	AAC conductors are widely used for short span distribution lines, feeders and bus bars of substations.
TO ORDER	Order by catalogue number, quantity and packaging required.

Note: In the interests of product improvement, GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductor			Characteristics			Packaging	
	Cross sectional area Nominal mm ²	Number and nominal dia. of wires no. x mm ²	Overall dimensions Approx mm ²	DC resistance at 20oc ohms/km	Ampacity amps	Calculated Breaking Load KN	Net weight Approx Kg/Km	Standard Packag- ing m±5%
Bare stranded conductor to DIN 48201-5								
HX-38H	16	7x1.70	5.1	1.8018	110	2.8	43	10000
HX-48H	25	7x2.10	6.3	1.1808	145	4.1	67	10000
HX-53H	35	7x2.50	7.5	0.8332	180	5.7	94	8000
HX-60H	50	7x3.00	9.0	0.5786	225	7.9	135	7000
HX-59H	50	19x1.80	9.0	0.5950	225	8.4	133	6000
HX-64H	70	19x2.10	10.5	0.4371	270	11.3	181	5000
HX-68H	95	19x2.50	12.5	0.3085	340	15.6	256	5000
HX-72H	120	19x2.80	14.0	0.2459	390	18.7	321	5000
HX-77H	150	37x2.25	15.7	0.1960	455	25.3	404	4000
HX-80H	185	37x2.50	17.5	0.1587	520	30.5	499	4000
HX-84H	240	61x2.25	20.3	0.1191	625	39.5	666	3000
HX-87H	300	61x2.50	22.5	0.0965	710	47.7	823	3000
HX-88H	400	61x2.89	26.0	0.0722	955	60.8	1099	2500
HX-89H	500	61x3.23	29.1	0.0578	990	74.6	1373	2000

PVC INSULATED HARD DRAWN STRANDED ALL ALUMINIUM CONDUCTORS



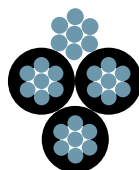
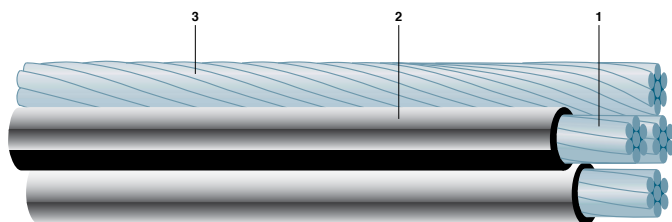
1. Stranded Aluminium Conductor
2. PVC Insulation

DESCRIPTION	PVC insulated hard drawn aluminium conductors for overhead transmission lines, to BS:6485 type 8 and type 16.
CONDUCTOR	Plain circular stranded hard drawn aluminium conductors conforming to DIN 48201.
INSULATION	Black heat resistive PVC type 5 rated 85°C to BS:6746, including 2.5% carbon black, for protection against ultra-violet radiation from the sun's rays. (PVC type 1 rated 70°C to BS:6746 also available upon request).
APPLICATION	<p>These cables have been designed primarily to give protection to telecommunication lines where crossed by power lines and to safeguard the public from low voltage lines in case of accidental contacts for short periods. They are available in the following two types:</p> <p>Type 8 For use only where the operating voltage of the power line does exceed 650 Vrms between any two conductors or 250 Vrms between any conductor and earth.</p> <p>Type 16 For use where the operating voltage of the power line exceeds 650 Vrms between any two conductors or 250 Vrms between any conductor and earth but does not exceed 11KV_{rms} between conductors.</p>
TO ORDER	Order by catalogue number, quantity and packaging required.

Note: In the interests of product improvement. GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductor		Insulator		Packaging	
	Nominal Cross sectional area mm ²	Number and diameter of wires no.x D mm	Min. thickness of insulation at any point mm	Overall diameter approx mm	Net weight Approx Kg/Km	Standard Packaging m±5%
Din 48 201 - PVC insulation BS6485 type 8.						
HFA1-38AAR	16	7x1.70	0.8	7.1	77	2000/3000
HFA1-48AAR	25	7x2.10	0.8	8.3	116	1500/2000
HFA1-53AAR	35	7x2.50	0.8	9.5	154	1500/2000
HFA1-60AAR	50	7x3.00	0.8	11.0	209	1000/2000
HFA1-59AAR	50	19x1.80	0.8	11.0	119	1000/2000
HFA1-64AAR	70	19x2.10	0.8	12.5	271	1000/2000
HFA1-68AAR	95	19x2.50	0.8	14.5	365	500/1000
HFA1-72AAR	120	19x2.80	0.8	10.0	445	500/1000
HFA1-77AAR	150	37x2.25	0.8	17.8	536	500/1000
HFA1-80AAR	185	37x2.50	0.8	19.5	648	500
Din 48 201 - PVC insulation BS6485 type 16.						
HFA1-38ABY	16	7x1.70	1.6	7.1	106	2000/3000
HFA1-48ABY	25	7x2.10	1.6	8.3	142	1500/2000
HFA1-53ABY	35	7x2.50	1.6	9.5	194	1000/2000
HFA1-60ABY	50	7x3.00	1.6	11.0	254	1000/2000
HFA1-59ABY	50	19x1.80	1.6	11.0	244	1000/2000
HFA1-64ABY	70	19x2.10	1.6	12.5	310	1000/2000
HFA1-68ABY	95	19x2.50	1.6	14.5	409	500/1000
HFA1-72ABY	120	19x2.80	1.6	10.0	493	500/1000
HFA1-77ABY	150	37x2.25	1.6	17.8	590	500/1000
HFA1-80ABY	185	37x2.50	1.6	19.5	706	500

WEATHER - PROOF SERVICE DROP CABLES 0.6 KV



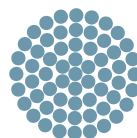
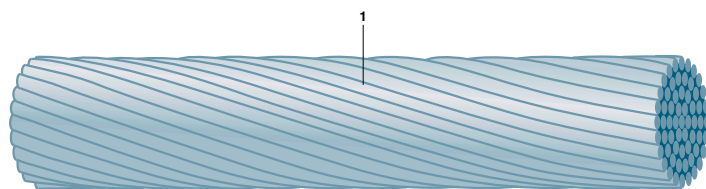
1. Stranded Aluminium Conductor
2. XLPE Insulation
3. Bare Stranded Aluminium Conductors Neutral

DESCRIPTION	One or more XLPE insulated copper or aluminium conductors spiralled around one bare hard-drawn copper or aluminium neutral conductor (*) for use in circuits not exceeding 600 volts phase to phase and at conductor temperature not exceeding 90°C.
CONSTRUCTION	<p>Phase and Neutral Conductors Aluminium: Circular stranded hard-drawn aluminium conductors conforming to DIN 48201 Part 5 and IEC:61089.</p> <p>Core Identification Black insulation with white printed number or letters.</p> <p>(*)Also available with insulated hard drawn neutral messenger and also bare or insulated messenger as aluminium alloy (AAAC), ACSR, ACSR/AW, etc, full size or reduced as specified.</p>
FEATURES	<ol style="list-style-type: none"> 1. XLPE resists fumes, acids and alkalis. 2. Excellent resistance to weathering by sunlight and ozone. 3. Superior physical and electrical properties. 4. Good resistance to thermal overloads. 5. Easily installed in long length.
APPLICATION	Service drop cables are used for overhead secondary distribution on poles or for connecting feeders to residential premises. They are available in two conductor (duplex), three conductor (triplex) and four conductor (quadruplex) configurations for single phase and three phase applications.
TO ORDER	Order by catalogue number, quantity and packaging required.

Note: In the interests of product improvement. GC3 reserve the right to alter cable specifications.

Catalogue No.	Phase			Neutral		Overall Diameter Approx (mm)	Ampacity (Amp)	Packaging	
	Cross sectional area Nominal+	Minimum number of wires n x D	Insulation Thick-ness Nominal	Cross Sectional area Nominal	Minimum number of wires			Net weight Approx	Standard Packag- ing
	mm²		(mm)	(mm2)				Kg/Km	m±5%
2 Conductor (Duplex)									
HCK2-38BBY	16	7x1.7	1.2	16	7	12.9	75	115	1000
HCK2-48BBY	25	7x2.10	1.2	25	7	13.3	100	168	1000
HCK2-53BBY	35	7x2.50	1.2	35	7	17.7	156	229	1000
HCK2-59BBY	50	19x1.8	1.5	50	19	21.4	205	322	1000
HCK2-64BBY	70	19x2.10	1.5	70	19	24.4	235	428	1000
HCK2-68BBY	95	19x2.50	1.5	95	19	28.4	365	291	500
HCK2-72BBY	120	19x2.80	1.5	120	19	31.4	305	734	500
3 Conductor (Triplex)									
HCK3-38BBY	16	7x1.7	1.2	16	7	15.6	75	185	1000
HCK3-48BBY	25	7x2.10	1.2	25	7	18.0	100	267	1000
HCK3-53BBY	35	7x2.50	1.2	35	7	20.4	156	304	1000
HCK3-59BBY	50	19x1.8	1.5	50	19	25.2	205	519	1000
HCK3-64BBY	70	19x2.10	1.5	70	19	28.2	235	674	500
HCK3-68BBY	95	19x2.50	1.5	95	19	32.2	365	928	500
HCK3-72BBY	120	19x2.80	1.5	120	19	35.3	305	1145	500
4 conductor (Quadruplex)									
HCK4-38BBY	16	7x1.7	1.2	16	7	19.0	75	256	1000
HCK4-48BBY	25	7x2.10	1.2	25	7	22.0	100	367	1000
HCK4-53BBY	35	7x2.50	1.2	35	7	24.9	135	499	1000
HCK4-59BBY	50	19x1.8	1.5	50	19	30.3	185	710	1000
HCK4-64BBY	70	19x2.10	1.5	70	19	33.9	210	920	500
HCK4-68BBY	95	19x2.50	1.5	95	19	38.8	252	1263	500
HCK4-72BBY	120	19x2.80	1.5	120	19	42.5	270	1556	500

BARE ALL ALUMINIUM ALLOY CONDUCTORS (AAAC)



1. Stranded All Aluminium Alloy Conductor

DESCRIPTION	<p>All aluminium alloy conductors (AAAC) are manufactured to meet the latest revisions of the following specifications:</p> <p>ASTM B399 BS EN 50182 DIN 98201 IEC 61089</p> <p>Any other sizes and stranding will be manufactured by request according to any international or customer specifications.</p>
FEATURES	<p>AAAC conductors are, in many cases more profitable compared with ACSR conductors because of the many advantages they offer, when the conductivity of both conductors is the same, the AAAC conductor is recommended for the following reasons:</p> <ol style="list-style-type: none"> 1. Bigger loading capacity 2. Better short circuit resistance 3. Smaller electrical losses. 4. Lighter and easier to handle. 5. Better protection against corrosion. 6. Harder than the ACSR conductor and not easily scratched. 7. Simpler and more reliable joints.
APPLICATION	AAAC conductors are widely used in long-distance transmission lines designed to operate at extra voltage levels.
TO ORDER	Order by catalogue number, quantity and packaging required.

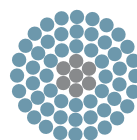
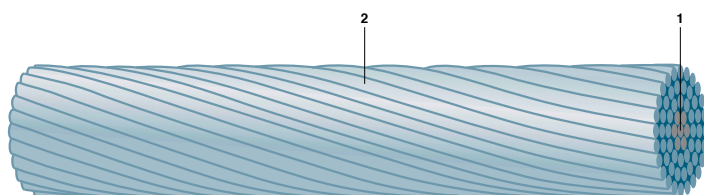
Note: In the interests of product improvement. GC3 reserve the right to alter cable specifications.

Catalogue No.	Conductor			Characteristics			Packaging	
	Cross Sectional Area Nominal (mm ²)	No. and nominal diameter of wires No. x mm	Overall Diameter Approx (mm)	Max DC Resistance at 20°C ohms/km	Ampacity amps	Calculated Breaking Load KN	Net weight Approx Kg/Km	Standard Packaging m±5%
Bare stranded conductor to DIN 48201-6								
UX-301I	16	7x1.70	5.1	2.0719	90	4.4	44	10000
UX-302I	25	7x2.10	6.42	1.3578	118	6.7	67	10000
UX-303I	35	7x2.50	7.56	0.9580	146	9.6	94	8000
UX-304I	50	7x3.00	9.0	0.6653	185	13.8	135	7000
UX-305I	50	19x1.80	9.0	0.6842	182	13.5	133	6000
UX-306I	70	19x2.10	10.70	0.5027	221	18.4	181	5000
UX-307I	95	19x2.50	12.60	0.3547	275	26.1	256	5000
UX-308I	120	19x2.80	14.10	0.2827	318	32.7	322	5000
UX-309I	150	37x2.25	15.75	0.2254	366	41.1	406	4000
UX-310I	185	37x2.50	17.64	0.1825	419	50.75	501	4000
UX-311I	240	61x2.25	20.25	0.1370	502	67.7	670	3000
UX-312I	300	61x2.50	22.68	0.1110	571	83.7	827	3000
UX-313I	400	61x2.89	26.01	0.0830	685	111.8	1105	2500
UX-314I	500	61x3.23	28.80	0.0665	784	139.7	1381	2000

Catalogue No.	Conductor					Characteristics			Packaging	
	Cross Sectional Area Nominal (mm ²)	Size Circular mils	Size AWG	No. and nominal diameter of wires No. x mm	Overall Diameter Approx (mm)	Max DC Resistance at 20°C ohms/km	Ampacity amps	Calculated Breaking Load KN	Net weight Approx Kg/Km	Standard Packaging m±5%
Bare Stranded Conductor to ASTM:B-399/ASTM:B-399M										
IX-326O	33.65	66360	2	7X2.47	7.4	0.9946	128	10.7	93	8000
IX-327O	53.49	105600	1/0	7X3.12	9.3	0.6262	169	17.0	147	6000
IX-328O	67.45	133100	2/0	7X3.50	10.5	0.4966	199	20.5	185	5000
IX-329O	85.00	167800	3/0	7X3.93	11.8	0.3941	221	25.9	234	4000
IX-330O	107.30	211600	4/0	7X4.42	13.2	0.3123	255	32.7	296	2000
IX-331O	202.70	400000	--	19X3.69	18.4	0.1653	378	59.8	559	2000
IX-332O	228.00	450000	--	19X3.91	19.5	0.1469	405	67.3	629	2000
IX-333O	253.30	500000	--	19X4.12	20.6	0.1322	430	74.7	698	2000
IX-334O	278.60	550000	--	37X3.10	21.6	0.1202	456	83.9	768	2000
IX-335O	303.80	600000	--	37X3.23	22.6	0.1102	480	91.5	838	2000
IX-336O	329.10	650000	--	37X3.37	23.5	0.1018	505	99.1	907	2000
IX-337O	354.50	700000	--	37X3.49	24.4	0.0945	527	102.0	977	2000
IX-338O	380.20	750000	--	37X3.62	25.3	0.0881	549	110.0	1048	2000
IX-339O	405.10	800000	--	37X3.73	26.1	0.0827	570	117.0	1117	2000
IX-340O	456.30	900000	--	37X3.96	27.7	0.0734	610	132.0	1258	2000
IX-341O	506.70	1000000	--	37X4.18	29.2	0.0661	650	146.0	1397	2000

Catalogue No.	Conductor				Characteristics			Packaging	
	Cross Sectional Area Nominal (mm ²)	Code Word	No. and nominal diameter of wires No. x mm	Overall Diameter Approx (mm)	Max DC Resistance at 20°C ohms/km	Ampacity amps	Calculated Breaking Load KN	Net weight Approx Kg/Km	Standard Packaging m±5%
Bare Stranded Conductor to BS EN 50182									
UX-3199	25	Almond	7x2.34	7.0	1.0940	135	8.4	82	8000
UX-3209	30	Cedar	7x2.54	7.6	0.9281	150	9.9	97	8000
UX-3209	40	Fir	7x2.95	8.8	0.6880	181	13.4	131	6000
UX-3219	50	Hazel	7x3.30	9.9	0.5498	208	16.8	164	6000
UX-3229	100	Oak	7x4.65	13.9	0.2769	320	33.3	325	2500
UX-3239	150	Ash	19x3.48	17.0	0.1830	418	50.6	497	4000
UX-3249	175	Elm	19x3.76	18.8	0.1568	460	59.1	580	3000
UX-3259	300	Upas	37x3.53	24.7	0.0916	663	101.5	997	3000

ALUMINIUM CONDUCTORS STEEL REINFORCED (ACSR)



1. Galvanised Steel Core Wires
2. Stranded Aluminium Wires

DESCRIPTION	Aluminium conductors steel reinforced (ACSR) are manufactured to meet the latest revision of the following specification:	
	BS 215 BS EN 50182 IEC 61089 ASTM B232 DIN 48204	
FEATURES	ACSR have been widely used in the field of OH transmission and distribution lines as they possess an ideal combination of conductivity and strength to permit longest possible spans and minimum sag between towers. In corrosive areas like coastal areas, a greased ACSR is used in order to prevent the corrosion due to the contacts between the steel core and the aluminium wires.	
	1. Possibility of optimising tensile strengths and ampacities to match performance and installation criteria. 2. Cost effective solutions for long distance transmission of electrical energy at extra high voltage.	
CONSTRUCTION	Reinforcement core	Stranded galvanized steel core
	Conductor	Stranded Aluminium wires over steel core
APPLICATION	ACSR is used for the transmission of electric power over long distances. It is also used as a messenger to support overhead electrical cables.	
TO ORDER	Order by catalogue number, quantity and packaging required.	

Note: In the interests of product improvement. GC3 reserve the right to alter cable specifications.

Catalogue No.	Nominal area (mm²)	Calculated area			Aluminium wires	Steel wires	Overall Diameter		Characteristics			Packaging	
		Aluminium mm²	Steel mm²	Complete Conductor mm²	No. and nominal diameter of wires No. x mm	No. and nominal diameter of wires No. x mm	Steel core mm	Complete conductor mm	Max DC Resistance at 20°C ohms/km	Ampacity amps	Calculated Breaking Load KN	Net weight Approx Kg/Km	Standard Packaging m±5%
ACSR Conductors to DIN 48204													
WX-201J	16/2.5	15.3	2.55	17.85	6x1.80	1x1.80	1.80	5.40	1.879	95	5.95	62	10000
WX-202J	25/4	23.8	4.00	27.80	6x2.25	1x2.25	2.25	6.80	1.203	126	9.20	97	10000
WX-203J	35/6	34.3	5.70	40.00	6x2.70	1x2.70	2.70	8.10	0.8352	159	12.65	140	7000
WX-204J	44/32	44.0	31.70	75.70	14x2.00	7x2.40	7.20	11.20	0.6573	195	45.00	372	5000
WX-205J	50/8	48.3	8.00	56.30	6x3.20	1x3.20	3.20	9.60	0.5946	197	17.10	196	5000
WX-206J	50/30	51.2	29.80	81.00	12x2.33	7x2.33	6.99	11.70	0.5644	213	43.80	378	5000
WX-207J	70/12	69.9	11.40	81.30	26x1.85	7x1.44	4.32	11.70	0.4130	248	26.80	284	5000
WX-208J	95/15	94.4	15.30	109.70	26x2.15	7x1.67	5.01	13.60	0.3058	300	35.75	383	5000
WX-209J	95/55	96.5	56.30	152.80	12x3.20	7x3.20	9.60	16.00	0.2992	317	79.35	712	5000
WX-210J	105/75	105.7	75.50	181.50	14x3.10	19x2.25	11.25	17.50	0.2736	340	108.45	891	5000
WX-211J	120/20	121.6	19.80	141.40	26x2.44	7x1.90	5.70	15.50	0.2374	352	45.65	494	4000
WX-212J	120/70	122.0	71.30	193.30	12x3.60	7x3.60	10.80	18.00	0.2364	368	100.00	901	4000
WX-213J	125/30	127.9	29.80	157.70	30x2.33	7x2.33	6.99	16.10	0.2259	365	57.60	591	4000
WX-214J	150/25	148.9	24.20	173.10	26x2.70	7x2.10	6.31	17.10	0.1939	400	55.25	605	3500
WX-215J	170/40	171.8	40.10	221.90	30x2.70	7x2.70	8.10	18.90	0.1682	441	76.75	794	3500
WX-216J	185/30	183.8	29.80	213.60	26x3.00	7x2.33	6.99	19.00	0.1571	457	66.20	746	3500
WX-217J	210/35	209.1	34.10	243.20	26x3.20	7x2.49	7.47	20.30	0.1380	495	74.90	850	3000
WX-218J	210/50	212.1	49.50	261.60	30x3.00	7x3.00	9.00	21.21	0.1363	505	93.90	981	3000
WX-219J	230/30	230.9	29.80	260.70	24x3.50	7x2.33	6.99	21.00	0.1249	525	73.10	877	3000
WX-220J	240/40	243.0	39.50	282.50	26x3.45	7x2.68	8.04	21.90	0.1188	544	86.40	987	3000

Catalogue No.	Nominal area (mm ²)	Calculated area			Aluminium wires	Steel wires	Overall Diameter		Characteristics			Packaging	
		Aluminium mm ²	Steel mm ²	Complete Conductor mm ²	No. and nominal diameter of wires No. x mm	No. and nominal diameter of wires No. x mm	Steel core mm	Complete conductor mm	Max DC Resistance at 20°C ohms/km	Ampacity amps	Calculated Breaking Load KN	Net weight Approx Kg/Km	Standard Packaging m±5%
WX-221J	265/35	263.7	34.10	297.80	24x3.74	7x2.49	7.47	22.40	0.1094	571	83.05	1002	3000
WX-222J	300/50	304.3	49.50	353.70	26x3.86	7x3.00	9.00	24.50	0.0949	626	107.00	1236	3000
WX-223J	305/40	304.6	39.50	344.10	54x2.68	7x2.68	8.04	24.10	0.0950	623	99.40	1160	3000
WX-224J	340/30	339.3	29.80	369.10	48x3.00	7x2.33	6.99	25.00	0.0851	663	92.90	1180	3000
WX-225J	380/50	382.0	49.5	431.5	54x3.00	7x3.00	9.00	27.0	0.0758	716	123.10	1453	2500
WX-226J	385/35	386.0	34.1	420.1	48x3.20	7x2.49	7.47	26.7	0.0748	718	104.80	1344	2500
WX-227J	435/55	434.3	56.3	490.6	54x3.20	7x3.20	9.60	28.8	0.0666	774	136.45	1653	2500
WX-228J	450/40	448.7	39.5	488.2	48x3.45	7x2.68	8.04	28.7	0.0643	786	120.75	1561	2000
WX-229J	490/65	490.3	63.6	553.9	54x3.40	7x3.40	10.20	30.6	0.0590	832	153.10	1866	2000
WX-230J	495/35	494.1	34.1	528.2	45x3.74	7x2.49	7.47	29.9	0.0585	831	121.80	1646	2000
WX-231J	510/45	510.2	45.3	555.5	48x3.68	7x2.87	8.61	30.7	0.0565	850	136.65	1778	2000
WX-232J	550/70	550.0	71.3	621.3	54x3.60	7x3.60	10.80	32.4	0.0526	872	170.60	2092	2000
WX-234J	560/50	561.7	49.5	611.2	48x3.86	7x3.00	9.00	32.2	0.0515	878	148.95	1954	2000
WX-235J	570/40	571.2	39.5	610.7	45x4.02	7x2.68	8.04	32.2	0.0507	884	136.20	1888	2000
WX-236J	650/45	653.5	45.3	698.8	45x4.30	7x2.87	8.61	34.0	0.0443	854	155.50	2171	1500
WX-237J	680/85	678.6	86.0	764.6	54x4.00	19x2.40	12.00	36.0	0.0426	987	206.25	2566	1500

Catalogue No.	Code Word	Calculated area			Aluminium wires	Steel wires	Overall Diameter		Characteristics			Packaging	
		Aluminium mm ²	Steel mm ²	Complete Conductor mm ²	No. and nominal diameter of wires No. x mm	No. and nominal diameter of wires No. x mm	Steel core mm	Complete conductor mm	Max DC Resistance at 20°C ohms/km	Ampacity amps	Calculated Breaking Load KN	Net weight Approx Kg/Km	Standard Packaging m±5%
ACSR Conductors to BS EN 50182													
WX-13015	Mole	10.60	1.77	12.40	6/1.50	1/1.50	1.50	4.5	2.7027	67.0	4.14	42.8	5000.0
WX-13025	Squirrel	21.00	3.50	24.50	6/2.11	1/2.11	2.11	6.33	1.3659	109.0	7.87	84.7	5000.0
WX-13035	Fox	36.70	6.11	42.80	6/2.79	1/2.79	2.79	8.37	0.7812	147.0	13.21	148.1	4000.0
WX-13045	Mink	63.10	10.50	73.60	6/3.66	1/3.66	3.66	11.0	0.4540	174.0	21.67	254.9	3000.0
WX-13055	Skunk	63.20	36.90	100.10	12/2.59	7/2.59	7.77	13.0	0.4568	246.0	52.79	463.0	2500.0
WX-13065	Beaver	75.00	12.50	87.50	6/3.99	1/3.99	3.99	12.0	0.3820	193.0	25.76	302.9	2500.0
WX-13075	Raccoon	78.80	13.10	92.40	6/4.10	1/4.10	4.10	12.3	0.3635	231.0	27.06	318.3	2500.0
WX-13085	Otter	83.90	14.00	97.90	6/4.22	1/4.22	4.22	12.7	0.3415	240.0	28.81	338.8	2500.0
WX-13095	Cat	95.40	15.90	111.30	6/4.50	1/4.50	4.50	13.5	0.3003	248.0	32.76	385.3	2500.0
WX-13105	Hare	105.00	17.50	122.50	6/4.72	1/4.72	4.72	14.2	0.2730	273.0	36.04	423.8	2500.0
WX-13115	Coyote	131.70	20.10	151.80	26/2.54	7/1.91	5.73	15.9	0.2192	311.0	45.86	520.7	2000.0
WX-13125	Cougar	131.50	7.31	138.80	18/3.05	1/3.05	3.05	15.3	0.2188	314.0	29.74	418.8	2500.0
WX-13135	Tiger	131.20	30.60	161.80	30/2.36	7/2.36	7.08	16.5	0.2202	323.0	57.87	602.2	2000.0
WX-13145	Lion	238.30	55.60	293.90	30/3.18	7/3.18	9.54	22.3	0.1213	448.0	100.47	1093.4	2000.0
WX-13155	Bear	264.40	61.70	326.10	30/3.35	7/3.35	10.05	23.5	0.1093	481.0	111.50	1213.4	2000.0
WX-13165	Goat	324.30	75.70	400.00	30/3.71	7/3.71	11.13	26.0	0.0891	542.0	135.13	1488.2	1500.0
WX-13175	Sheep	375.10	87.50	462.60	30/3.99	7/3.99	11.97	27.9	0.0771	592.0	156.30	1721.3	1500.0
WX-13185	Antelope	374.10	48.50	422.60	54/2.97	7/2.97	8.91	26.7	0.0773	588.0	118.88	1413.8	1500.0
WX-13195	Bison	381.70	49.50	431.20	54/3.00	7/3.00	9.00	27.0	0.0758	595.0	121.30	1442.5	1500.0
WX-13205	Deer	429.60	100.20	529.80	30/4.27	7/4.27	12.81	29.9	0.0673	639.0	179.00	1971.4	1500.0
WX-13215	Elk	477.10	111.30	588.40	30/4.50	7/4.50	13.50	31.5	0.0606	679.0	198.80	2189.5	1500.0
WX-13225	Camel	476.00	61.70	537.70	54/3.35	7/3.35	10.05	30.2	0.0608	677.0	146.40	1798.8	1500.0
WX-13235	Moose	528.50	68.50	597.00	54/3.53	7/3.53	10.59	31.8	0.0547	763.0	159.92	1997.3	1500.0

Catalogue No.	Code Word	Nominal alu- minium area mm²	Calculated area			Aluminium wires	Steel wires	Overall Diameter		Characteristics			Packaging	
			Alu- minium mm²	Steel mm²	Complete Conductor mm²	No. and nominal diameter of wires No. x mm	No. and nominal diameter of wires No. x mm	Steel core mm	Complete conductor mm	Max DC Resistance at 20°C ohms/km	Ampacity amps	Calculated Breaking Load KN	Net weight Approx Kg/Km	Standard Packaging m±5%
ACSR Conductors to BS:215 Part 2														
BX-219M	Gopher	25	26.24	4.4	30.6	6x2.36	1x2.36	2.36	7.08	1.0930	134	9.61	106	4500
BX-220M	Weasel	30	31.61	5.3	36.7	6x2.59	1x2.59	2.59	7.77	0.9077	179	11.45	128	4500
BX-221M	Ferret	40	42.41	7.1	49.5	6x3.00	1x3.00	3.00	9.00	0.6766	182	15.20	172	4500
BX-222M	Rabbit	50	52.88	8.8	61.7	6x3.35	1x3.35	3.35	10.05	0.5426	208	18.35	214	4500
BX-223M	Horse	70	73.37	12.8	86.2	12x2.79	7x2.79	8.37	13.95	0.3936	267	61.20	538	4000
BX-224M	Dog	100	105.00	13.5	118.5	6x4.72	7x1.57	4.71	14.15	0.2733	321	32.70	394	4000
BX-225M	Wolf	150	158.10	36.8	194.9	30x2.59	7x2.59	7.77	18.13	0.1828	418	69.20	726	3500
BX-226M	Dingo	150	158.70	8.8	167.5	18x3.35	1x3.35	3.35	16.75	0.1815	412	35.70	506	3500
BX-227M	Lynx	175	183.40	42.8	226.2	30x2.79	7x2.79	8.37	19.53	0.1576	459	79.80	842	3000
BX-228M	Caracal	175	184.30	10.2	194.5	18x3.61	1x3.61	3.61	18.05	0.1563	452	41.10	587	3000
BX-229M	Panther	200	212.10	49.4	261.5	30x3.00	7x3.00	9.00	21.00	0.1363	504	92.25	974	3000
BX-230M	Jaguar	200	210.60	11.7	222.3	18x3.86	1x3.86	3.86	19.30	0.1367	491	46.55	671	3000
BX-231M	Zebra	400	428.90	55.6	484.5	54x3.18	7x3.18	9.54	28.62	0.0674	770	131.90	1621	2500

Catalogue No.	Code Word	Conductor size		Calculated area			Aluminium wires	Steel wires	Nominal Diameter		Characteristics			Packaging	
		Circular mils	AWG	Alu- minium mm²	Steel mm²	Complete Conductor mm²	No. and nominal diameter of wires No. x mm	No. and nominal diameter of wires No. x mm	Steel core mm	Complete conductor mm	Max DC Resistance at 20°C ohms/km	Ampacity (Sun - Wind) amps	Calculated Breaking Load KN	Net weight Approx Kg/Km	Standard Packag- ing m±5%
ACSR Conductors to ASTM B 232, ASTM B 232M															
BX-18016	Turkey	26240	6	13.29	2.19	15.48	6x1.68	1x1.68	1.68	5.03	2.1590	105	5.29	53.7	15000
BX-18026	Swan	41740	4	21.16	3.55	24.71	6x2.12	1x2.12	2.12	6.35	1.3560	140	8.28	85.4	12000
BX-18036	Swan ate	41740	4	21.14	5.36	26.50	7x1.96	1x2.61	2.16	6.53	1.3570	140	10.50	99.7	10000
BX-18046	Sparrow	66360	2	33.61	5.61	39.22	6x2.67	1x2.67	2.67	8.03	0.8536	185	12.70	135.9	9000
BX-18056	Separate	66360	2	33.65	8.55	42.20	7x2.47	1x3.30	3.30	8.25	0.8525	185	16.20	158.8	8000
BX-18066	Robin	83690	1	42.39	7.10	49.49	6x3.00	1x3.00	3.00	8.99	0.6768	210	15.80	171.3	7000
BX-18076	Raven	105600	1/0	53.48	8.90	62.38	6x3.37	1x3.37	3.37	10.11	0.5364	240	19.50	216.1	6000
BX-18086	Quail	133100	2/0	67.42	11.23	78.65	6x3.78	1x3.78	3.78	11.35	0.4255	275	23.60	272.5	6000
BX-18096	Pigeon	167800	3/0	85.03	14.19	99.22	6x4.25	1x4.25	4.25	12.75	0.3374	315	29.40	343.0	5000
BX-18106	Penguin	211600	4/0	107.20	17.87	125.10	6x4.77	1x4.77	4.77	14.30	0.2676	365	37.10	433.0	4000
BX-18116	Waxwing	266800	--	135.20	7.42	142.10	18x3.09	1x3.09	3.09	15.47	0.2132	455	30.60	432.0	4000
BX-18126	Partridge	266800	--	135.20	22.00	157.20	26x2.57	7x2.00	6.00	16.31	0.2143	455	50.20	456.0	4000
BX-18136	Ostrich	300000	--	152.00	24.71	176.70	26x2.73	7x2.12	6.36	17.27	0.1906	495	56.40	615.0	3000
BX-18146	Merlin	336400	--	170.50	9.48	180.00	18x3.47	1x3.47	3.47	17.37	0.1691	515	38.60	543.0	3500
BX-18156	Linnet	336400	--	170.50	27.81	198.30	26x2.89	7x2.25	6.74	18.29	0.1699	530	62.70	689.0	2500
BX-18166	Oriel	336400	--	170.50	39.81	210.30	30x2.69	7x2.69	8.07	18.82	0.1703	530	77.10	784.0	2500
BX-18176	Chickadee	397500	--	201.40	11.16	212.60	18x3.77	1x3.77	3.77	18.87	0.1434	575	44.20	643.0	2500
BX-18186	Brant	397500	--	201.40	26.11	227.50	24x3.27	7x2.18	6.54	19.61	0.1438	575	65.10	762.0	2000
BX-18196	Ibis	397500	--	201.40	32.77	234.20	26x3.14	7x2.44	7.32	19.89	0.1438	590	72.40	814.0	2000
BX-18206	Lark	397500	--	201.40	46.97	248.40	30x2.92	7x2.92	8.77	20.47	0.1442	590	90.50	927.0	2000
BX-18216	Pelican	477000	--	241.70	13.42	255.10	18x4.14	1x4.14	4.14	20.68	0.1193	640	52.30	771.0	2500
BX-18226	Flicker	477000	--	241.70	31.34	273.00	24x3.58	7x2.39	7.16	21.49	0.1199	670	76.40	915.0	2000
BX-18236	Hawk	477000	--	241.70	39.42	281.10	26x3.44	7x2.67	8.02	21.79	0.1199	660	86.90	978.0	2000
BX-18246	Hen	477000	--	241.70	56.39	298.10	30x3.20	7x3.20	9.61	22.43	0.1202	666	106.00	1112.0	1500
BX-18256	Osprey	556500	--	282.00	15.66	297.70	18x4.47	1x4.47	4.47	22.33	0.1022	710	61.00	899.0	2500
BX-18266	Parakeet	556500	--	282.00	36.54	318.50	24x3.87	7x2.58	7.73	23.20	0.1027	720	88.20	1067.0	1500
BX-18276	Dove	556500	--	282.00	45.93	327.90	26x3.72	7x2.89	8.67	23.54	0.1027	730	101.00	1140.0	1500

Catalogue No.	Code Word	Conductor size		Calculated area			Aluminium wires	Steel wires	Nominal Diameter		Characteristics			Packaging	
		Circular mils	AWG	Alu- minium mm ²	Steel mm ²	Complete Conductor mm ²	No. and nominal diameter of wires No. x mm	No. and nominal diameter of wires No. x mm	Steel core mm	Complete conductor mm	Max DC Resistance at 20°C ohms/km	Ampac- ity (Sun - Wind) amps	Calculated Breaking Load KN	Net weight Approx Kg/Km	Standard Packag- ing m±5%
ACSR Conductors to ASTM B 232, ASTM B 232M															
BX-18286	Eagle	556500	--	282.00	65.81	347.90	30x3.46	7x3.46	10.38	24.21	0.1030	730	124.00	1298.0	1500
BX-18296	Peacock	605000	--	306.60	39.78	346.40	24x4.03	7x2.69	8.07	24.20	0.0945	760	95.90	1161.0	1500
BX-18306	Squab	605000	--	306.60	49.89	356.50	26x3.87	7x3.01	9.03	24.53	0.0945	760	108.00	1240.0	1500
BX-18316	Wood duck	605000	--	306.60	71.52	378.10	30x3.61	7x3.61	10.82	25.25	0.0947	770	129.00	1411.0	1500
BX-18326	Teal	605000	--	306.60	69.89	376.50	30x3.61	19x2.16	10.82	25.25	0.0947	770	133.00	1399.0	1500
BX-18336	King bird	636000	--	322.30	17.91	340.20	18x4.78	1x4.78	4.78	23.88	0.0894	780	69.80	1027.0	1500
BX-18346	Rook	636000	--	322.30	41.76	364.10	24x4.14	7x2.76	8.27	24.81	0.0899	780	101.00	1219.0	1500
BX-18356	Gross Beak	636000	--	322.30	52.43	374.70	26x3.97	7x3.09	9.27	25.15	0.0899	790	112.00	1302.0	1500
BX-18366	Scoter	636000	--	322.30	75.19	397.50	30x3.70	7x3.70	11.09	25.89	0.0901	790	135.00	1478.0	1500
BX-18376	Egret	636000	--	322.30	73.55	395.80	30x3.70	19x2.22	11.10	25.88	0.0901	790	140.00	1470.0	1500
BX-18386	Swift	636000	--	322.30	8.95	331.10	36x3.38	1x3.38	3.38	23.63	0.0894	790	61.20	958.0	2500
BX-18396	Flamingo	666600	--	337.70	43.78	381.50	24x4.23	7x2.82	8.47	25.40	0.0858	810	106.00	1277.0	1500
BX-18406	Gannet	666600	--	337.70	54.98	392.70	26x4.07	7x3.16	9.49	25.75	0.0858	810	117.00	1364.0	1500
BX-18416	Stilt	715500	--	362.60	46.99	409.60	24x4.39	7x2.92	8.77	26.32	0.0799	850	113.00	1372.0	1500
BX-18426	Starling	715500	--	362.60	59.03	421.60	26x4.21	7x3.28	9.83	26.70	0.0799	850	126.00	1466.0	1500
BX-18436	Redwing	715500	--	362.60	82.58	445.20	30x3.92	19x2.35	11.76	27.46	0.0801	860	154.00	1653.0	1400
BX-18446	Cuckoo	795000	--	402.80	52.19	455.00	24x4.62	7x3.08	9.24	27.73	0.0719	910	124.00	1522.0	1400
BX-18456	Drake	795000	--	402.80	65.61	468.40	26x4.44	7x3.45	10.36	28.14	0.0719	910	140.00	1628.0	1400
BX-18466	Coot	795000	--	402.80	11.19	414.00	36x3.77	1x3.77	3.77	26.42	0.0716	890	74.50	1198.0	2000
BX-18476	Tern	795000	--	402.80	27.84	430.60	45x3.38	7x2.25	6.75	27.00	0.0719	890	98.20	1333.0	1500
BX-18486	Condor	795000	--	402.80	52.19	455.00	54x3.08	7x3.08	9.24	27.42	0.0719	900	125.00	1524.0	1400
BX-18496	Mallard	795000	--	402.80	91.87	494.70	30x4.14	19x2.48	12.41	28.96	0.0721	910	171.00	1838.0	1200
BX-18506	Ruddy	900000	--	456.10	31.54	487.60	45x3.59	7x2.40	7.19	28.74	0.0635	950	109.00	1510.0	1400
BX-18516	Canary	900000	--	456.10	59.10	515.20	54x3.28	7x3.28	9.84	29.51	0.0635	950	142.00	1725.0	1400
BX-18526	Catbird	954000	--	483.40	13.43	496.80	36x4.14	1x4.14	4.14	28.95	0.0596	970	87.90	1437.0	1400
BX-18536	Rail	954000	--	483.40	33.44	516.80	45x3.70	7x2.47	7.40	29.59	0.0599	970	115.00	1600.0	1400
BX-18546	Cardinal	954000	--	483.40	62.65	546.10	54x3.38	7x3.38	10.13	30.38	0.0599	990	150.00	1829.0	1200
BX-18556	Tanager	1033500	--	523.50	14.54	538.00	36x4.30	1x4.30	4.30	30.12	0.0551	1020	95.20	1556.0	1400
BX-18566	Ortolan	1033500	--	523.70	36.18	559.90	45x3.85	7x2.57	7.70	30.78	0.0553	1020	123.00	1734.0	1200
BX-18576	Curfew	1033500	--	523.70	67.87	591.50	54x3.51	7x3.51	10.54	31.62	0.0553	1040	163.00	1981.0	1200
BX-18586	Blue jay	1113000	--	563.90	39.03	602.90	45x4.00	7x2.66	7.99	31.97	0.0514	1070	133.00	1867.0	1200
BX-18596	Finch	1113000	--	563.90	71.55	635.50	54x3.65	19x2.19	10.95	32.84	0.0516	1090	174.00	2129.0	1200
BX-18606	Bunting	1192500	--	604.30	41.76	646.10	45x4.14	7x2.76	8.27	33.08	0.0479	1120	142.00	2000.0	1200
BX-18616	Grackle	1192500	--	604.30	76.58	680.90	54x3.77	19x2.27	11.33	33.99	0.0482	1130	186.00	2281.0	1200
BX-18626	Skylark	1272000	--	643.30	17.87	661.20	36x4.77	1x4.77	4.77	33.40	0.0448	1160	116.70	1917.0	1200
BX-18636	Bittern	1272000	--	644.50	44.57	689.10	45x4.27	7x2.85	8.54	34.16	0.0450	1160	152.00	2134.0	1200
BX-18646	Pheasant	1272000	--	644.50	81.68	726.20	54x3.90	19x2.34	11.70	35.10	0.0452	1180	194.00	2433.0	1200
BX-18656	Dipper	1351500	--	684.80	47.32	732.10	45x4.40	7x2.93	8.80	35.21	0.0423	1210	161.00	2266.0	1200
BX-18666	Martin	1351500	--	684.80	86.71	771.50	54x4.02	19x2.41	12.05	36.17	0.0425	1230	206.00	2585.0	1000
BX-18676	Bobolink	1431000	--	725.10	50.14	775.20	45x4.53	7x3.02	9.06	36.23	0.0400	1250	171.00	2400.0	1000
BX-18686	Plover	1431000	--	725.10	91.87	817.00	54x4.14	19x2.48	12.41	37.21	0.0401	1270	218.00	2738.0	1000
BX-18696	Nuthatch	1510500	--	765.40	52.88	818.30	45x4.65	7x3.10	9.30	37.22	0.0379	1300	178.00	2533.0	1000
BX-18706	Parrot	1510500	--	765.40	96.84	862.20	54x4.25	19x2.55	12.74	38.23	0.0380	1320	230.00	2890.0	1000
BX-18716	Lapwing	1590000	--	805.70	55.69	861.40	45x4.78	7x3.18	9.55	38.20	0.0360	1340	188.00	2666.0	1000
BX-18726	Falcon	1590000	--	805.70	102.10	907.80	54x4.36	19x2.62	13.08	39.24	0.0361	1360	242.00	3041.0	1000

CERTIFICATES

CERTIFICATE

Number: 2125223.01



Issued to:
Applicant:
Giza Cable Industries
6 Ibn Malek st.
Giza, Egypt

Manufacturer/Licensee:
Giza Cable Industries
6 Ibn Malek st.
Giza, Egypt

Product : cables for rated voltage of 1 kV
Trade name : GIZA CABLE INDUSTRIES
Type/model : AL/XLPE/SWA/PVC

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

KEMA Quality hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard IEC 60502-1:2004 / A1:2009
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2114990

KEMA Quality hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on: 13 April 2010 and expires upon withdrawal of one of the above mentioned standards.

KEMA Quality B.V.

drs. G.J. Zoetbrood
Managing Director

H.R.M. Barends
Certification Manager

ACCREDITED BY
THE DUTCH COUNCIL
FOR ACCREDITATION



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T +31 26 3 56 20 00 F +31 26 3 52 58 00 www.kemaquality.com Registered Arnhem 09085396

a DEKRA company

CERTIFICATE

Number: 2125223.02



Issued to:
Applicant:
Giza Cable Industries
6 Ibn Malek st.
Giza, Egypt

Manufacturer/Licensee:
Giza Cable Industries
6 Ibn Malek st.
Giza, Egypt

Product : cables for rated voltage of 1 kV
Trade name : GIZA CABLE INDUSTRIES
Type/model : CU/XLPE/SWA/PVC

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

KEMA Quality hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard IEC 60502-1:2004 / A1:2009
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2114990

KEMA Quality hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on: 12 April 2010 and expires upon withdrawal of one of the above mentioned standards.

KEMA Quality B.V.

drs. G.J. Zoetbrood
Managing Director

H.R.M. Barends
Certification Manager

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ACCREDITED BY
THE DUTCH COUNCIL
FOR ACCREDITATION



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T +31 26 3 56 20 00 F +31 26 3 52 58 00 www.kemaquality.com Registered Arnhem 09085396

a DEKRA company

SGS

6th of October City, Fourth Industrial Zone,
Egypt

ISO 9001:2008

**SALES AND MANUFACTURE OF LOW VOLTAGE CABLES,
TELEPHONE CABLES AND ENAMELED WIRES**

This certificate is valid from 6 March 2011 until 6 March 2014
and remains valid subject to satisfactory surveillance audits.
Re certification audit due before 3 March 2014
Issue 1. Certified since 6 March 2011

Ref



Page 1 of 1



SGS SGS SGS

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respective families either were offered, selected for, or declined the research participation for confidentiality.

Certificate CH11/0343

SGS

The management system of

Giza Cable Industries

6th of October city, Fourth Industrial Zone, Egypt



has been assessed and certified as meeting the requirements of

OHSAS 18001:2007

For the following activities

Sales and Manufacture of low voltage cables, telephone cables and enameled wires

This certificate is valid from 16 March 2011 until 15 March 2014
and remains valid subject to satisfactory surveillance audits
Recertification audit due before 3 March 2014
Issue 1. Certified since March 2011

Authorised by

S. L. ... Ch. Keller



SGS Société Générale de Surveillance SA. Systems & Services Certification
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Accreditation No. SCESm 017

Page 1 of 1



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Intertek

TEST REPORT

Page 1 of 23

REPORT NUMBER : TURR110004983 - REVISED I

APPLICANT NAME Giza Cables Industries

ADDRESS 6 IBN Malek St. Giza - Egypt
Attention : Kamel Mohamed
CC: Yasser Mohamady (yasser.mohamady@alalamla-eg.com)

SAMPLE DESCRIPTION : See attachment

DATE IN : 18 January, 2011

DATE OUT : 24 January, 2011 / 21 February, 2011

REQUEST : RoHS Test was performed on the item.

RESULTS : See attachment

NOTE : In this revised I report, new sample was added and part 5-5, part 12-2&3&4 were taken out by the request of the vendor.
This report replaces the report no TURR110004983 dated on 24 January, 2011 and must be used instead of it.

The test results relate only to the items tested. The whole and/or the part of this test report shall not be reproduced and shall not be shared with third parties, nor to be used for PR activities without the written permission of INTERTEK Test Hizmetleri A.Ş.
The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with ISO/IEC 17025 and UKAS accreditation requirements. Unless otherwise is specified, all Pass or Fail results are given without uncertainty considered. Where uncertainty is taken into account, the result may be borderline. Borderline results need to be re-tested to determine their disposition up to customer's decision. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. Tests marked (*) in this test report are not included in the UKAS accreditation schedule for this laboratory.

Bora Şirinbilek
Coordinator



2111

Neslihan Sözer
Chemical Laboratory Manager

Intertek Test Hizmetleri A.Ş.
Merkez Mahallesi Sanayi Cad. No.23 Altındag Plaza Yenibosna 34197 - ISTANBUL / TURKEY
Phone : +90.212. 496 46 46 Fax: +90.212. 452 80 55
e-mail : labtest.turkey@intertek.com
www.intertek-cg-tur.



110004983

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بسم الله الرحمن الرحيم



الهيئة السعودية للمواصفات والمقاييس والجودة
Saudi Standards, Metrology and Quality Org.

تشهد الهيئة السعودية للمواصفات والمقاييس والجودة بأنها رخصت
لشركة الجيزة لصناعة الكابلات

بإستعمال علامة الجودة على منتجاتها التالي :
الكابلات المعزولة بعدد كلوريد الفينيل لجهود مقننة حتى ٤٥٠/٧٥٠ فولت ، كابلات
القوى لجهود مقننة (١ كيلو فولت وحتى ٣ كيلو فولت) فقط
حسب المواصفات القياسية السعودية :

رقم ١٣١٩، ١٣٢٠، ١٩٩٧/م، ١٤٤٩، ١٤٥٠، ١٦٩٤، ١٩٩٨/م، ١٧٠٢، ٢٠٠٠/م
ولمدة عام واحد ابتداءً من ١٤٣٢/٠١/٠٨ هـ الموافق ١٤/١٢/٢٠١٠ م

والله الموفق

محافظ الهيئة

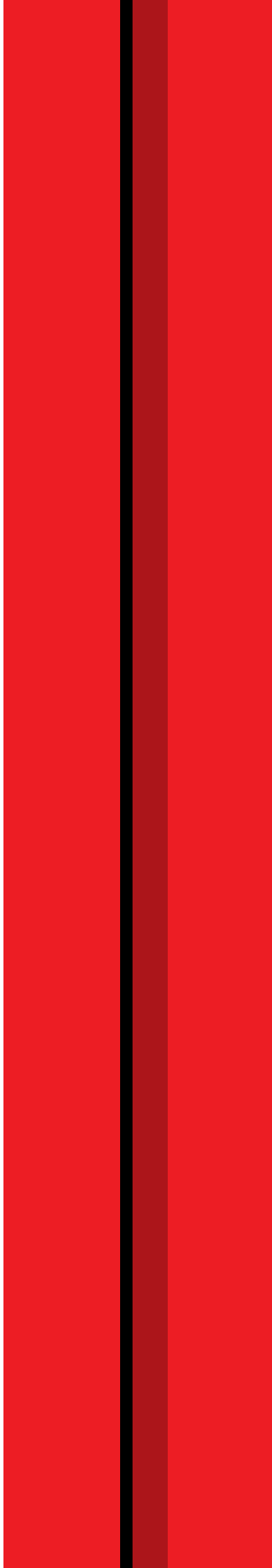
نبيل بن أمين ملا



رقم الترخيص : ١٤٣٢/٣٠٣



AT A GLANCE



1992	Establishment of the company by Eng. El Sayed Ahmed Mohsen.
1993	Set-up of the factory on 35,000 MSQ grounds, research, procurement of the best machinery and recruitment, followed by a period of product testing.
1994	Start of production at the Telephone Cables Division, with only two lines for the production of jelly filled cables at a capacity of 600,000 pair x km annually.
1996	Expansion of the Telephone Cables Division, doubling the capacity to 1.2 million pair x km annually.
1997	ISO 9002 Certification of all gc3 products.
1997	Launch of the Enameled Wires Division, with a select range of products and a capacity of 1,200 MT annually.
1998	Sales turnover yields a full return on initial invested capital.
1998	Inauguration of the Building Wires Division, manufacturing of low voltage cables, with only copper products at a capacity of 2,500 MT annually.
2000	ISO 9001/2000 Certification of all gc3 products.
2002	Expansion of the Building Wires Division, adding aluminum products with a capacity of 2,000 MT annually.
2004	Augmentation of the Enameled Wires Division to a capacity of 2,500 MT annually.
2004	Increase of the Telephone Cables Division's capacity to 1.5 million pair x km annually.
2005	Sales turnover soars to 330% of sales of the year 2000,
2007	Inauguration of the comprehensive Power Cables Division with a wider range of products and a total capacity of 11,000 MT annually
2008	Sales Turnover Soars to 300%
2009	KEMA laboratory Certification for Low Voltage Cables
2011	<p>Production of the Medium Voltage Cables Up to 35 K.V.</p> <p>Regeneration of the ISO-9001 Certificate (International Organization for Standardization) for Optimized System Operation</p> <p>Regeneration of the OHSAS 18001 Certificate (Occupational Health and Safety) for Health and Safety Measures</p> <p>ROSH Certification (Restriction of Hazardous Substances)</p>
2012	Completion of the MRP Project (Material Requirement Planning)
2013	Expansion of Production capacity and range to Include Cables Up to 66 K.V.



 **www.gc-3.com**

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