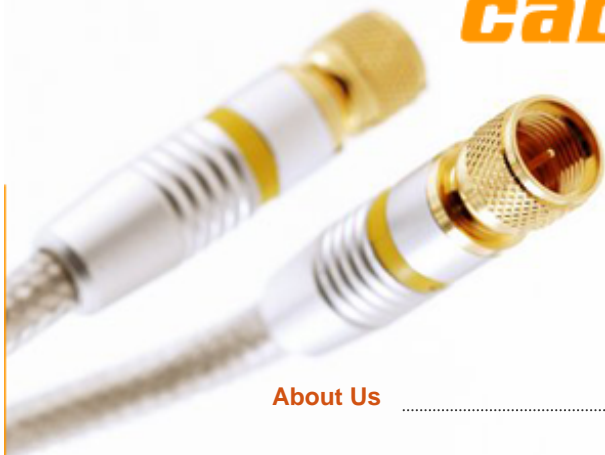


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About Us



Relemac Technologies Private Limited is an amalgamation of professionals from diversified fields ranging from Technical to Finance and Marketing. Established in the year 1993 as a Proprietorship concern by an enterprising young entrepreneur, Relemac has risen through thick and thin to become one of most renowned brands today. Initially Relemac started as a single product company but gradually it researched and developed new products and increased its inventory to cover all type of cables.

The strength of the company is its utmost dedication towards its customers and its sincerity towards the product specification and quality. It is no wonder that Relemac today holds various licenses of Bureau of Indian Standards and its Quality System has been accredited by ISO-9001-2015. Further, being a socially responsible company, Relemac embarked on a mission to protect the environment around its premises and has been rewarded by the grant of ISO: 14001 certifications for its efforts.

Our efforts towards quality and customer satisfaction has reaped good rewards for us in the shape of approvals with most of the major Utility providers, EPC Contractors, Project Consultants and many prestigious large scale private users.

Not one to sit on our laurels continuous upgradation of machines, methods and manpower is of prime importance to us. It is ensured that the company's infrastructure is up to date in all respect and our manpower whom we consider an integral part of our assets are always abreast with the latest technological advancement in our field. We have a well experienced and technically competent work force which is highly motivated. Each work day in our company is measured in terms of betterment achieved and improvements made. Good or better are words we don't believe in, for us there is only one word which we always strive for and that is BEST.

Our motto: "Do things corrects the first time and always"



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Contact



RELEMAC CABLES

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As part of our overall effort to provide quality, cost effective, and timely solutions for your cable requirements, we have a dedicated and knowledgeable team of customer service representatives ready to receive your call. Whatever your needs, from product information and availability, placing an order, or reviewing its status, we're here to assist you.

Just so you know, we're "flexible", and that's how we support our customers. If you need it fast, we'll expedite it. If packaging is a concern, we have many options. If it doesn't fit into our standard specifications, we'll try and come up with an alternative solution. The bottom line is, we'll listen, work with you and go out of our way to help you.

For a quick response, call us directly at the phone numbers listed above. Otherwise, feel free to send us a fax or E-Mail at info@relemacindia.com.



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Dealing at **Relemac India** is done by state of the art high-tech equipments handled by a team of skilled people to deliver high quality of products. We have been continuously improving upon our dealing process and the machinery to keep in pace with the changing and ever advancing technology.

Quality policy

We strictly follow the concept of Total quality management and have been awarded ISO 9001 - 2015 certificate for our quality system. Our products are put through IMI, in-process and final strenuous testing procedures in our testing lab well equipped with latest testing equipment.

TEST ON RAW MATERIALS

Raw materials are procured from approved vendors. Testing on raw material starts from vendor's end. The raw material is received along with the vendor's test report. The following tests conducted to test the raw material/verify the vendor's test report.

1. Conductor

Tests are conducted on conductor are as per IS: 8130:1984. Apart from these tests, if customers require other test requirements. Those tests are also conducted.

- i) **Conductor Resistance** : 100% with the help of Kelvin Double Bridge for wire up to 0.4mm Diameter. Finer wires by sampling of 10% on lot basis.
- ii) **Conductor Elongation** : 100% on Tensile Testing machine for wires up to 0.4mm Diameter. Finer wires by sampling of 10% on lot basis.
- iii) **Solder Bath/Persulphate** : 100% for wires up to 0.4mm. Diameter Finer wires by sampling of (For Tinned conductors only) 10% on lot basis.
- iv) **Wrapping Test** : 100% Wrapping is done manually. (For Aluminum Conductor Only)
- v) **Tensile Strength**: 100% with the Tensile Strength on Tensile Testing Machine. (For Aluminum Only)

2. P.V.C. COMPOUND/ POLYETHYLENE/POLYMERS

Tests are conducted on PVC Compound/Polyethylene/Polymers are as per relevant Specification. Those tests are also conducted. Sample of every consignment is first run on Trial basis and following tests are conducted: -

- i) **Insulation Resistance**: With Mega Ohms Meter.
- ii) **Elongation**: With Tensile Testing Machine.
- iii) **Tensile Strength**: With Tensile Testing Machine.
- iv) **Spark Testing**: With on line spark testers.
- v) **High Voltage Test**: With High Voltage Tester.
- vi) **Thermal Stability Test**: With Oven & PH Paper.
- vii) **Oxygen & Temperature Index**: With Oxygen Test Apparatus.
[For FRLS PVC/FRHF Compound]
- viii) **Smoke Density Test**: With smoke Density Test Apparatus.
[For FRLS PVC/FRHF Compound]
- ix) **HCL Gas Generation Test**: With HCL Gas Emission Test Apparatus.
[For FRLS PVC/FRHF Compound]
- x) **Swedish Chimney Test**: With Swedish Chimney Test Apparatus.
[For FRLS PVC/FRHF Compound]



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Quality



The Following TYPE TESTS are conducted on month basis :-

- i) Bleeding & Blooming: With Bleeding & Blooming tape and HST Oven.
- ii) Ageing: With Ageing Oven.
- iii) Hot Deformation: With Hot Deformation Apparatus.
- iv) Loss of Mass: With Electronic Balance & Additional Ageing Oven with Air Flow.

3. STEEL STRIP/WIRE

We procure ISI marked G.I. wire & Strips. However the following Tests are conducted as per IS:3975:-

- i) Dimensions: 100% with Micrometer and Vernier Calipers.
- ii) Tensile Strength: 100% with Tensile Testing Machine.
- iii) Dip Test: with Dip Tester.

4. POLY ALUMINIUM LAMINATE

- i) Peel Strength: From Tensile Machine.
- ii) Dimensions: 100% with Micrometer and Vernier Calipers.

ON LINE QUALITY ASSURANCE

1. BUNCHING/STRANDING/SHAPPING OF CONDUCTOR

- i) Dia & No. of Strands.: On Sample Basis.
- ii) Conductor Resistance: Sampling basis.
- iii) Direction & Lay Length: Sampling Basis.
- iv) Dimension over Conductor: Sampling basis.

2. INSULATION EXTRUSION

- i) On Line Spark Testers: **100% Performed by Spark Testers on each Extruder.**
- ii) Dimension & Centering: **On line, by sampling basis.**
- iii) Insulation Resistance: **Sampling Basis.**
- iv) High Voltage: **Sampling Basis.**
- v) Tensile Strength of PVC Comp: **Sampling Basis Performed as described before.**
- vi) Conductor Dimension: **Sampling Basis. & Resistance.**
- vii) Shrinkage: **Sampling Basis.**

3. TWISTING & LAYING OF CORES

- i) Visual Examination for: 100% Color Sequence
- ii) Direction & lay Length: 100% with Visual and Vernier Calipers
- iii) High Voltage Test: 100% performed with High Voltage Test.
- iv) Conductor Resistance: 100% on digital Resistance Meter.
- v) Size of Conductor: 100% By Micrometer.
- vi) Dia. Over Laid Up Cores: 100% by Vernier Calipers.



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4. INNER SHEATH

- i) Thickness & Measurement: 100% with help of Vernier Calipers.
- ii) Surface Conditions of Inner: Visual Examination. Sheath

5. ARMOURING

- i) Direction of Lay: Visual Examination.
- ii) No. of Wires/Strip: On line, by counting.
- iii) Diameter of Wire/Width: By Micrometer. & Thickness of Strip
- iv) High Voltage: 100% by High Voltage Tester.
- v) Dia. Over Armouring : By Vernier Calipers.

6. SHEATHING

- i) Continuity of each core before Sheathing : 100% by Continuity Tester
- ii) Diameter Over Sheathing : By Vernier Calipers.
- iii) Thickness of Insulation: By Vernier Calipers.
- iii) Eccentricity: By Vernier Calipers.
- iv) Surface Finish: Visual Examination.
- v) Printing/Embossing : Visual Examination.

FINAL TESTING: - Final Testing of Electrical Wires are carried out as per IS:694:90[Conductor - IS:8130 (Type - II) & Insulation - IS:5831:1984 (Type - A)] Final Testing of FRLS PVC Insulated Wires are carried out as General Purpose Electrical PVC Wires in addition of FRLS Tests as per ASTM D-2843 & 2863, IEC - 754-I and BICC Hand Book Chapter - VI. Final Testing of Flame Retardant Halogen Free Compound Insulated Wires are carried out as IEC - 332-1 & 3, IEEE - 383, IEC - 754 - 1 & 2, ASTM - D 2843 & 2863. Final Testing of Cables are carried out as per IS: 1554[Pt-I]:88 and any other National/International Specification required by the customers. The results are recorded on Test Report.

R & D

We give immense stress on Research & Development at various levels of dealing and testing. Continuous improvement in the quality of existing products, services and development of new products is a policy matter at our works.

We develop cables to suit the stress & strain of installation conditions at various industries.

Product Packaging

We are capable of meeting the most strict delivery schedules. Meeting the deadline is always the top priority as any delay in the delivery of cable can contribute to overall project delay and cost overrun.

Cable is supplied in wooden reels, corrugated boxes and coils. Cable ends are sealed with BOPP self adhesive tape and non-hygroscopic sealing caps to protect the cable ends from moisture.



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List of Major Customers

The customers include large public sector units of

- » Ministry of Defense
- » Ministry of Power
- » Ministry of Communication
- » Defense Research and Development Organisation
- » Bharat Electronics Limited
- » Bharat Heavy Electricals Limited
- » NTPC
- » NPC
- » ECIL
- » BARC
- » Instrumentation Limited
- » ISRO
- » ISTRAC
- » VSSC
- » HMT
- » ABB
- » L&T
- » LCSO
- » Amphenol
- » AMP
- » TATA
- » ESSAR

And endless list of customers all satisfied with Relemac Group.



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Products

Housewiring



One name in house wires which inspires confidence in consultants, architects and builders today is RELEMAC. One of the most sought-after brands of house wires, Relemac has built up a reputation for commercial foresight and solid integrity. Relemac house wires carry a guarantee that far exceeds the ISI Certification they possess. Tested at every stage and supervised by experienced engineers, Relemac house wire are making a name for themselves in both Indian and world markets.

Conduct

Flexible copper conductors are made from high conductivity Copper rods of 8 mm diameter. The rod is drawn to required sizes of fine wires for the construction of conductors of different areas of cross section. Annealed plain copper conductors used in the flexible cables and cords conform to the requirements of table 3 class 5 of IS:8130-1984. The construction of conductor is also made according to customer specification.

Insulation

Relemac House wires are mainly available readily in PVC insulations & also manufactured in various other insulations like, FR PVC / FRLS PVC / HR PVC / ZERO HALOGEN & TEFLON (PTFE) With HR PVC.

PVC Insulation 'Type A' PVC Compound suitable for a maximum continuous conductor operating temperature of 70°C, as referred in IS:694-2010, is insulated over conductor by extrusion process with required thickness of insulation and conforms to all the requirements of IS: 5831-1984.

FR Insulation FR PVC insulation has better fire retardant properties than normal PVC.

FRLS Insulation FRLS PVC insulation provides better fire retardant properties than normal PVC & also emits Low Smoke, in case of fire.

HR PVC Insulation HR PVC Insulation ensures insulation stability at conductor temperature of 85C & 105C, in case of HR85 & HR 105PVC insulation respectively.

ZERO HALOGEN Insulation ZERO HALOGEN Insulation provides better flame retardant properties than HR & FRLS. Zero Halogen required >300 Deg'C temperature to catch fire (with 1% Oxygen).

TEFLON (PTFE) With HR PVC Insulation TEFLON (PTFE) with HR105 PVC are designed for high cost and Sensitive installations where fire from electrical short circuits may cause damage to human life & property. PTFE can withstand, operating temperature from -65°C to +260°C.



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Products

Housewiring



Comparative Properties of RELEMAC Wires

Feature	Normal PVC Wire	Heat Resistance HR-PVC	Fire Retardant FR-PVC	Fire Retardant Low Smoke FRLS	Zero Halogen Low Smoke
Insulation Material	PVC	PVC	Spl. PVC	Spl. PVC	Spl. Polymer
Insulation Property	Normal	Good	Good	Good	Very Good
Temperature Rating	70 Deg' C	85 Deg' C	70 Deg' C	70 Deg' C	85 Deg' C
Thermal Stability	Normal	Very Good	Good	Good	Very Good
Flame Retardancy	Good	Good	Very Good	Very Good	Excellent
Safety During Burning	Average	Average	Good	Good	Excellent
Requirement of Oxygen to catch fire (% in air)	>21	>21	>30	>30	>35
Temperature Required to Catch Fire (with 21% oxygen)	Room Temp.	Room Temp.	>250 Deg' C	>250 Deg' C	> 300 Deg' C
Visibility during Cable Burning (%)	<20	<20	<35	>40	>80
Release of Halogen Gas during burning (% by weight)	<20	<20	<20	<20	Zero
Abrasion Resistance During Installation	Good	Good	Good	Good	Good

Single Core Unsheathed Flexible Cables in voltage grade 1100 Volts

Nominal cross sectional area of Conductor Sq.mm	Number/Nom. Dia. of wire mm	Nominal Thickness of Insulation mm	Overall Diameter (Approx.) mm	Current carrying capacity # 2 cables, single phase		Max. resistance of Conductor per Km @ 20 C Ohms.
				In conduit/ Trunking Amps.	Unenclosed-clipped directly to a surface or on cable tray Amps.	
1.0	14/0.3*	0.7	2.8	11	12	18.10
1.5	22/0.3*	0.7	3.2	13	16	12.10
2.5	36/0.3*	0.8	3.8	18	22	7.41
4.0	56/0.3**	0.8	4.5	24	29	4.95

Standard Colours: Black, Red, Blue, Yellow, Green. (for earthing) Supplied in 90 metre lengths in attractive cartons. Confirm to IS-694 - 2010. * As per conductor class 2 of IS : 8130/1984 ** As per conductor class 5 of IS : 8130/1984 #As per IS 3961 (part V)-1968



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Products

Housewiring



Comparative Properties of RELEMAC Wires

Single Core Unsheathed Flexible Cables in voltage grade 1100 Volts

Nominal cross sectional area of Conductor Sq.mm	Number/Nom. Dia. of wire mm	Nominal Thickness of Insulation mm	Overall Diameter (Approx.) mm	Current carrying capacity # 2 cables, single phase		Max. resistance of Conductor per Km @ 20 C Ohms.
				In conduit/ Trunking Amps.	Unenclosed-clipped directly to a surface or on cable tray Amps.	
6	84/0.3	0.8	5.4	31	37	3.30
10	140/0.3	1.0	6.8	42	51	1.91
16	101/0.45	1.0	8.0	57	68	1.21
25	158/0.45	1.2	10.0	71	86	0.780
35	220/0.45	1.2	11.1	91	110	0.554
50	315/0.45	1.4	13.2	120	140	0.386

Supplied in 90 meters lengths in Polythene & Cloth Packing
Standard Colours: Red, Yellow, Blue & Black

Confirm to IS:694/2010.
* Sample card available on request. (1 to 4 Sq mm.)

Single Core Unsheathed Flexible Cables in voltage grade 1100 Volts

2.0	28/0.3	0.8	3.40	17	20	9.40
4.5	65/0.3	0.9	4.85	28	33	4.08



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Products

Housewiring



Comparative Properties of RELEMAC Wires

Single Core Unsheathed Annealed copper conductor as per BSS-2004/1961 voltage grade 1100 Volts

No.of strand & Size of wire in inch	Size in SWG	Nominal area of Conductor in Sq.mm	Thickness of Insulation in mm	Nominal overall Dia in mm	Current rating Amps
1/0.044*	1/18	1.0	1.05	3.30	5
1/0.046*	1/17	1.1	1.05	3.70	7
3/0.029*	3/22	1.3	1.05	3.50	10
3/0.036	3/20	2.0	1.20	4.85	16
3/0.036*	3/20	2.0	1.05	3.90	15
7/0.029*	7/22	3.0	1.15	4.80	20
7/0.036	7/20	4.5	1.30	6.10	29
7/0.036*	7/20	4.5	1.15	5.20	28
7/0.044	7/18	7.0	1.30	6.50	36
7/0.064	7/16	15.0	1.30	8.70	53
19/0.044	19/18	19.0	1.30	10.40	62
19/0.064	19/16	40.0	1.30	12.70	97
19/0.083	19/14	65.0	1.40	16.50	140
37/0.064	37/16	75.0	1.55	17.30	158
37/0.083	37/14	130.0	1.70	22.50	218

Supplied in 90 meters lengths in Polythene, Carton & Cloth Packing.
Standard Colours : White, Red, Yellow, Blue, Black & Green.

* Sample card available on request



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Products



Coaxial Cables

75 Ohms Cables	50 Ohms Cables
» RG-59 Drop Cable	» 50 Ohms Corrugated Copper Tube
» RG-6 Drop Cables	» 50 Ohms Radiating
» RG-11 Drop Cable	» Braiding - Type 50 Ohms
» 412 Series Cable	
» 500 Series Cable	
» 540 Series Cable	
» Construction & Material	



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Coaxial cables



Products

TELESCOPE CABLES
RG 59 Drop Cable Construction & Dimensions

Component	Standro	Trishield	QuadShield
Diameter of Inner conductor (mm)	0.81 ± 0.02	0.81 ± 0.02	0.81 ± 0.02
Diameter of Dielectric (mm)	3.66 ± 0.15	3.66 ± 0.15	3.66 ± 0.15
Diameter of 1st outer conductor <= (mm)	3.90	3.90	3.90
Diameter of 2nd outer conductor <= (mm)	4.12	4.12	4.12
Diameter of 3rd outer conductor <= (mm)	/	4.20	4.20
Diameter of 4th outer conductor <= (mm)	/	/	4.50
Diameter of Jackets <= (mm)	6.30	6.40	6.90
Approximate Weight (Kg / Km)	32	34	38
Diameter of messenger steel wire (mm)	1.13	1.13	1.13
Steel wire weight (Kg / Km)	11	11	11

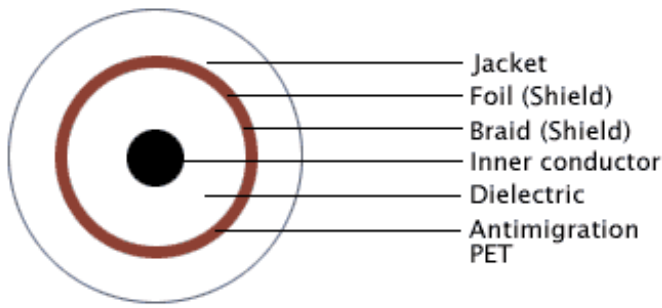
- Note :**
1. Material of 1st out conductor and 3rd out conductor is bonded foil, non-bonded foil, 3rd out conductor is non-bonded foil.
 2. Coverage of 2nd outer conductor and 4th outer conductor is 40%, 50%, 60%. This percentage can vary on customers requirement.
 3. Floodant Jelly.

RG 59 Attenuation

Frequency (Mhz)	Max Value (dB/100m)
5	2.60
50	5.90
55	6.20
200	11.50
211	11.80
300	14.10
400	16.10
450	17.40
500	18.10
550	19.40
600	20.30
750	22.90
800	24.10
860	24.80
1000	27.20
1350	31.52
1750	35.88
2150	39.78

RG 59 Electrical Performance

DC Resistance of Inner Conductor (ohms/km)	163 CCS 35 BS
DC Resistance of Outer Conductor (ohms/km)	40 AL 20TC
Impedance (ohms)	75±3.0
Capacitance(pF/m)	54±3.0
wave velocity rate%	87%
Return Loss (>=db)	VHF 5-300 MHz >= 20dB UHF 300-960 MHz >= 18dB



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Coaxial cables



Products

TELESCOPE CABLES
RG 6 Drop Cable Construction & Dimensions

Component	Standro	Trishield	QuadShield
Diameter of Inner conductor (mm)	1.00 ± 0.02	1.00 ± 0.02	1.00 ± 0.02
Diameter of Dielectric (mm)	4.60 ± 0.20	4.60 ± 0.20	4.60 ± 0.20
Diameter of 1st outer conductor <= (mm)	5.10	5.10	5.10
Diameter of 2nd outer conductor <= (mm)	5.35	5.35	5.35
Diameter of 3rd outer conductor <= (mm)	/	5.42	5.42
Diameter of 4th outer conductor <= (mm)	/	/	5.66
Diameter of Jackets <= (mm)	7.20	7.30	7.70
Approximate Weight (Kg / Km)	40	42	46
Diameter of messenger steel wire (mm)	1.30	1.30	1.30
Steel wire weight (Kg / Km)	11	11	11

Note :

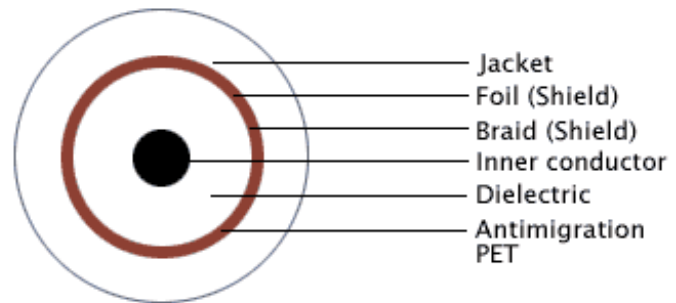
1. Material of 1st out conductor and 3rd out conductor is bonded foil, non-bonded foil, 3rd out conductor is non-bonded foil.
2. Coverage of 2nd outer conductor and 4th outer conductor is 40%, 50%, 60%. This percentage can vary on customers requirement.
3. Floodant Jelly.

RG 6 Attenuation

Frequency (Mhz)	Max Value (dB/100m)
5	1.87
50	4.80
55	5.03
200	9.70
211	9.96
300	12.20
400	14.09
450	15.20
500	16.02
550	16.80
600	17.55
750	19.62
800	20.67
860	21.00
1000	23.11
1350	26.85
1750	30.57
2150	33.88

RG 6 Electrical Performance

Dc Resistance of Inner Conductor (ohms/km)	110 CCS 22BC
DC Resistance of Outer Conductor (ohms/km)	37 AL 19TC
Impedance (ohms)	75±3.0
Capacitance(pF/m)	54±3.0
Wave velocity rate%	82%
Return Loss (>=db)	VHF 5-300 MHz >= 20dB
	UHF 300-960 MHz >= 18dB



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**TELESCOPE CABLES
RG 11 Drop Cable Construction & Dimensions**

Component	Standro	Trishield	QuadShield
Diameter of Inner conductor (mm)	1.66 ± 0.02	1.66 ± 0.02	1.66 ± 0.02
Diameter of Dielectric (mm)	7.25 ± 0.20	7.25 ± 0.20	7.25 ± 0.20
Diameter of 1st outer conductor <= (mm)	7.52	7.52	7.52
Diameter of 2nd outer conductor <= (mm)	7.80	7.80	7.80
Diameter of 3rd outer conductor <= (mm)	/	7.90	7.90
Diameter of 4th outer conductor <= (mm)	/	/	8.20
Diameter of Jackets <= (mm)	10.20	10.30	10.60
Approximate Weight (Kg / Km)	76	78	84
Diameter of messenger steel wire (mm)	1.80	1.80	1.80
Steel wire weight (Kg / Km)	20	20	20

Note :

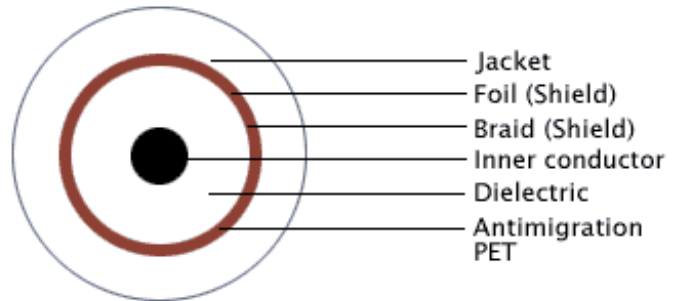
1. Material of 1st out conductor and 3rd out conductor is bonded foil, non-bonded foil, 3rd out conductor is non-bonded foil.
2. Coverage of 2nd outer conductor and 4th outer conductor is 40%, 50%, 60%. This percentage can vary on customers requirement.
3. Floodant Jelly.

RG 11 Attenuation

Frequency(Mhz)	Max Value (dB/100m)
5	1.19
50	3.20
55	3.29
200	6.40
211	6.57
300	7.83
400	9.04
450	9.59
500	10.20
550	10.70
600	11.18
750	12.49
800	13.16
860	13.38
1000	14.43
1350	17.10
1750	19.47
2150	21.58

RG 11 Electrical Performance

Dc Resistance of Inner Conductor (ohms/km)	40 CCS 8.0BC
Dc Resistance of Outer conductor (ohms/km)	26 AL 13TC
Impedance (ohms)	75±3.0
Capacitance(pF/m)	52±3.0
Wave velocity rate%	85%
Return Loss (>=db)	VHF 5-300 MHz >= 20dB
	UHF 300-960 MHz >= 18dB



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TELESCOPE CABLES
412 Series Cable Construction & Dimensions

Component	Standro	Trishield	QuadShield
Diameter of Inner conductor (mm)	2.15 ± 0.03	2.15 ± 0.03	2.15 ± 0.03
Diameter of Dielectric (mm)	9.00 ± 0.30	9.00 ± 0.30	9.00 ± 0.30
Diameter of 1st outer conductor <= (mm)	9.40	10.30	9.70
Thickness >=	/	0.64	0.35
Diameter of 2nd outer conductor <= (mm)	9.70	/	/
Diameter of Jackets <= (mm)	12.30	12.60	12.30
Approximate Weight (Kg / Km)	90(115)	145	105
Diameter of messenger steel wire (mm)	2.13	2.13	2.13
Steel wire weight (Kg / Km)	30	30	30

Note :

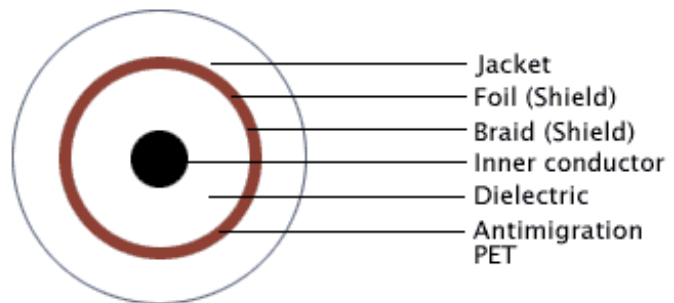
1. Material of 1st out conductor is bonded foil, non-bonded foil, Thickness of extruding Aluminium tube is 0.64mm. Thickness of welding Aluminium tube is 0.35mm.
2. Coverage of 2nd outer conductor is 40%, 50%, 60%. We can provide special demand for client.

412 Attenuation

Frequency(Mhz)	Max Value (dB/100m)
5	0.75
50	2.40
55	2.52
200	5.00
211	5.20
300	6.20
400	7.23
450	7.60
550	8.50
600	9.00
750	10.10
800	10.64
860	10.80
1000	11.70
1350	13.86
1750	15.78
2150	17.48

412 Electrical Performance

DC Resistance of Inner Conductor (ohms/km)	7.9 CCA 4.75BC
DC Resistance of Outer Conductor (ohms/km)	22 AL 15TC
Impedance (ohms)	75±3.0
Capacitance(pF/m)	52±3.0
Wave velocity rate%	86%
Return Loss (>=db)	VHF 5-300 MHz >= 20dB
	UHF 300-960 MHz >= 18dB



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TELESCOPE CABLES
500 Series Cable Construction & Dimensions

Component	Standro	Trishield	QuadShield
Diameter of Inner conductor (mm)	2.77 ± 0.03	2.77 ± 0.03	2.77 ± 0.03
Diameter of Dielectric (mm)	11.5 ± 0.30	11.5 ± 0.30	11.5 ± 0.30
Diameter of 1st outer conductor <= (mm)	11.90	12.80	12.80
Thickness >=	/	0.64	0.35
Diameter of 2nd outer conductor <= (mm)	12.20	/	/
Diameter of Jackets <= (mm)	15.00	15.40	15.20
Approximate Weight (Kg / Km)	120(170)	174	144
Diameter of messenger steel wire (mm)	2.77	2.77	2.77
Steel wire weight (Kg / Km)	47	47	47

Note :

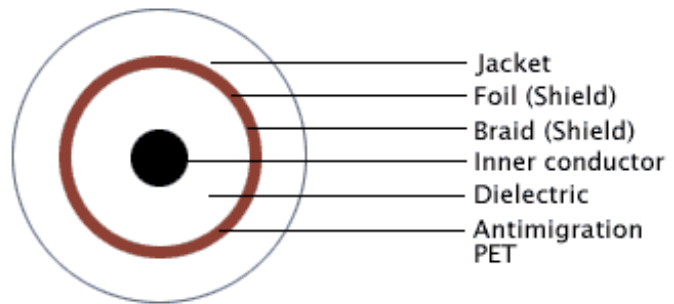
1. Material of 1st out conductor is bonded foil, non-bonded foil, Thickness of extruding Aluminium tube is 0.64mm.
2. Thickness of welding Aluminium tube is 0.35mm.
3. Coverage of 2nd outer conductor is 40%, 50%, 60%. We can provide special demand for client.

500 Attenuation

Frequency(Mhz)	Max Value (dB/100m)
5	0.60
50	1.90
55	2.05
200	3.90
211	4.03
300	4.80
400	5.60
450	5.90
550	6.70
600	7.06
750	7.90
800	8.32
860	8.46
1000	9.20
1350	10.90
1750	12.41
2150	13.26

500 Electrical Performance

DC Resistance of Inner Conductor (ohms/km)	4.6 CCA 2.9BC	
DC Resistance of Outer Conductor (ohms/km)	19 AL	12TC
Impedance (ohms)	75±2.0	
Capacitance(pF/m)	50±3.0	
Wave velocity rate%	86%	
Return Loss (>=db)	VHF 5-300 MHz >=	20dB
	UHF 300-960 MHz >=	18dB



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TELESCOPE CABLES
540 Series Cable Construction & Dimensions

Component	Standro	Trishield	QuadShield
Diameter of Inner conductor (mm)	3.15 ± 0.04	3.15 ± 0.04	3.15 ± 0.04
Diameter of Dielectric (mm)	13.0 ± 0.04	13.0 ± 0.04	13.0 ± 0.04
Diameter of outer conductor <= (mm)	13.70	13.70	13.70
Thickness >=	/	0.64	0.35
Diameter of Jackets <= (mm)	16.40	16.60	16.40
Steel wire weight (Kg / Km)	140	197	197

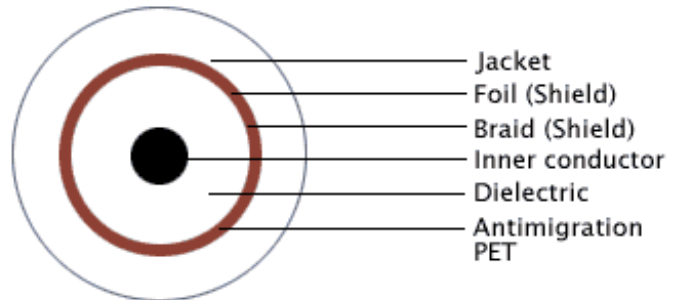
- Note :**
1. Our Conductor Thickness of non-bonded Aluminium tube is 0.20
 2. Thickness of extruding Aluminium tube is 0.64mm.
 3. Thickness of welding Aluminium tube is 0.35mm.
 4. Coverage of 2nd outer conductor is 40%, 50%, 60%. We can provide special demand for client.

540 Attenuation

Frequency(Mhz)	Max Value (dB/100m)
5	0.60
50	1.70
55	1.80
200	3.40
211	3.50
300	4.20
400	4.85
450	5.15
550	5.70
600	6.00
750	6.70
800	6.89
860	7.20
1000	7.80
1350	9.20
1750	10.69
2150	11.98

540 Electrical Performance

DC Resistance of Inner Conductor (ohms/km)	3.6 CCA 2.2 BS
DC Resistance of Outer Conductor (ohms/km)	19 AL 12TC
Impedance (ohms)	75±2.0
Capacitance(pF/m)	50±3.0
Wave velocity rate%	86%
Return Loss (>=db)	VHF 5-300 MHz >= 20dB UHF 300-960 MHz >= 18dB



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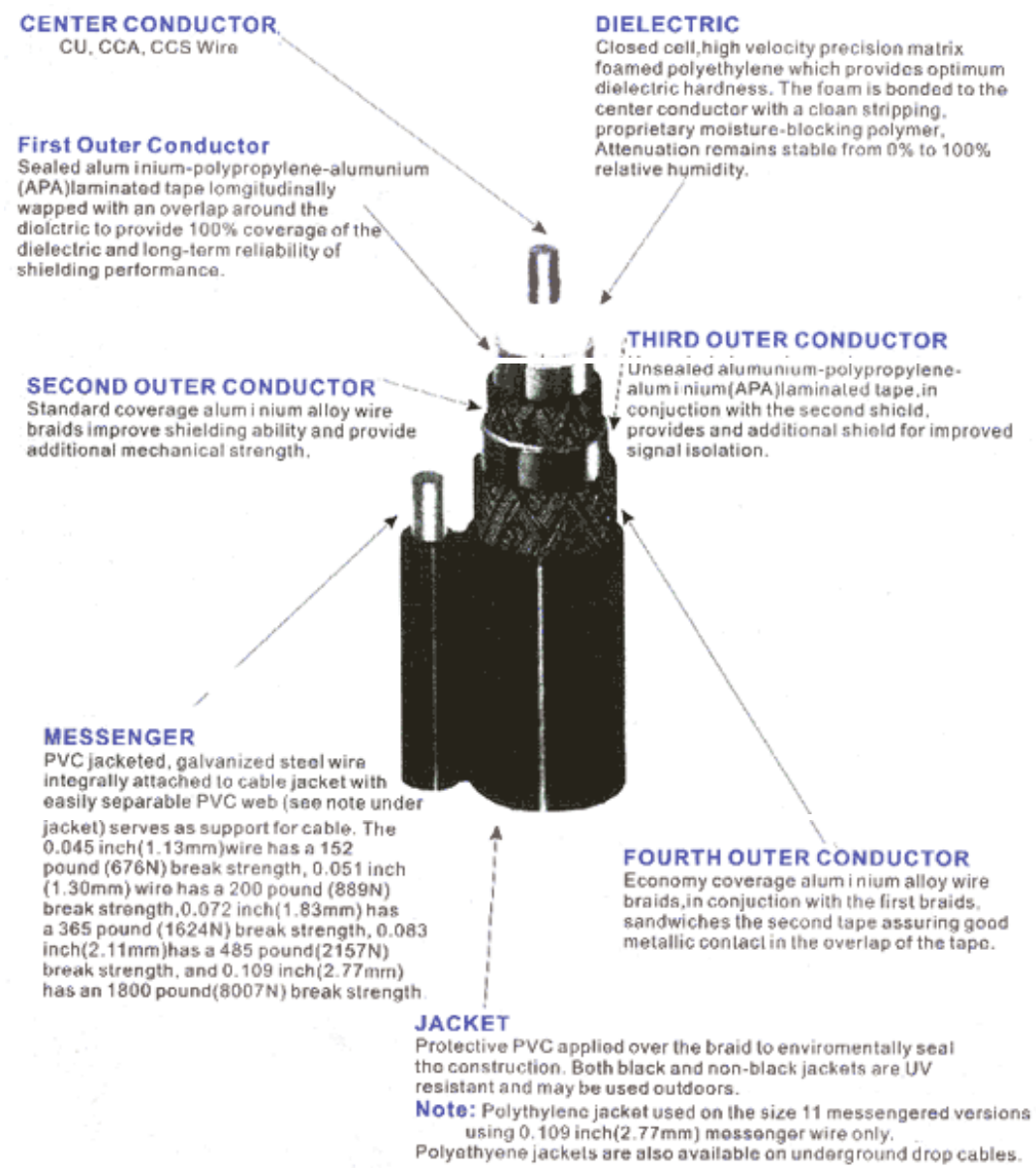


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TELESCOPE CABLES Details of Construction and Materials



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Products

TELESCOPE CABLES
Corrugated Copper Tube

		1-5/8"	1-1/4"	7/8"	5/8"	1/2"	3/8"	1/2"S	
Physical Dimensions									
Inner Conductor (Dia.mm)		17.30	13.10	9.10	7.04	4.83	3.12	3.56	
Dielectric (Dia.mm)		43.50	33.50	22.70	18.03	12.30	8.00	8.60	
Outer Conductor (Dia.mm)		46.50	35.80	24.90	19.74	13.80	9.53	12.20	
Jacket (Dia.mm)	Thickness	1.75	1.80	1.55	1.20	1.10	0.85	0.60	
	Diameter	50.00	39.40	28.00	22.20	16.00	11.70	13.40	
Weight (kg/km)		1395	1035	610	496	250	150	170	
Mechanical Dimensions									
Minimum Bending Radius (mm)	Single Bending	300	200	120	90	70	50	27	
	10 Repeated Bendings	600	500	250	250	200	150	40	
	Mobile Applications	-	-	500	500	350	300	200	
Max. Pulling Strength (N)		3000	2500	1800	3630	1100	700	700	
Electrical Characteristics									
DC Resistance (ohms/km) (20°C)	Inner Conductor	0.69	0.72	0.93	0.49	1.48	3.48	2.69	
	Outer Conductor	0.33	0.49	1.05	1.37	1.90	2.85	3.28	
Nominal Capacitance (pF/m)		76						83	
Characteristic Impedance (ohms)		50 ± 1						50 ± 2	
Velocity Ratio (%)		88						81	
Attenuation (20°) (dB/100m)	5Mhz	0.16	0.20	0.26	0.36	0.49	0.76	0.74	
	10Mhz	0.23	0.28	0.37	0.51	0.69	1.07	1.05	
	100Mhz	0.74	0.90	1.21	1.57	2.24	3.44	3.44	
	150Mhz	0.92	1.10	1.52	1.94	2.78	4.26	4.30	
	200Mhz	1.08	1.30	1.76	2.20	3.23	4.92	4.92	
	280Mhz	1.29	1.57	2.12	2.70	3.85	5.88	5.95	
	300Mhz	1.35	1.62	2.18	2.80	4.00	6.10	6.12	
	350Mhz	1.46	1.76	2.38	3.05	4.35	6.64	6.70	
	450Mhz	1.69	2.02	2.74	3.48	4.96	7.56	7.61	

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TELESCOPE CABLES
Corrugated Copper Tube

		1-5/8"	1-1/4"	7/8"	5/8"	1/2"	3/8"	1/2"S
Attenuation (20°) (dB/100m)	800Mhz	2.36	2.80	3.78	4.80	6.80	10.30	10.50
	900Mhz	2.53	3.01	4.04	5.12	7.22	11.04	11.24
	1000Mhz	2.69	3.17	4.30	5.42	7.68	11.61	11.90
	1500Mhz	3.45	4.02	5.45	6.83	9.61	14.60	15.00
	1800Mhz	3.84	4.45	6.10	7.56	10.60	16.01	16.57
	2000Mhz	4.10	4.77	6.46	8.07	11.30	17.10	17.70
	2500Mhz	4.72	5.40	7.35	9.14	12.83	19.18	20.12
	3000Mhz	-	6.10	8.31	10.02	14.41	21.50	22.60
Mean Power Rating (Kw) (Ambient Temperature 40°C, Inner Conductor 80°C)	10Mhz	42.70	31.40	19.90	18.50	8.80	5.30	7.40
	100Mhz	12.70	9.50	6.00	5.71	2.70	1.60	2.30
	200Mhz	8.70	6.60	4.20	3.97	1.90	1.10	1.58
	300Mhz	6.90	5.30	3.30	3.21	1.50	0.95	1.28
	450Mhz	5.50	4.20	2.70	2.58	1.20	0.77	1.03
	800Mhz	3.90	3.00	1.90	1.89	0.91	0.56	0.75
	1000Mhz	3.40	2.70	1.70	1.67	0.80	0.50	0.66
	1500Mhz	2.60	2.10	1.30	1.33	0.64	0.40	0.52
	1800Mhz	2.30	1.90	1.20	1.20	0.58	0.36	0.47
	2000Mhz	2.20	1.75	1.10	1.13	0.54	0.34	0.44
	2500Mhz	1.90	1.53	1.00	1.00	0.48	0.30	0.39
3000Mhz	-	1.36	0.88	0.893	0.43	0.27	0.35	
DC Breakdown Voltage (V)		11000	9000	6000	4000	4000	2500	2500
RF Peak Voltage (kVms)		5.70	4.30	3.00	-	1.60	1.05	1.13
RF Peak Power (kW)		315	185	91	62	25	11	13
Cut-off Frequency		2.80	3.70	5.30	6.10	9.80	14.20	13.20
Shielding Effectiveness (dB)		>>120						
Insulation Resistance (Mega ohms km)		5 X 10 ³						
(VSWR)	0-3GHz			<=1.15				
	0-2GHz	<=1.15		----				
	800-9000MHZ	<=1.10						

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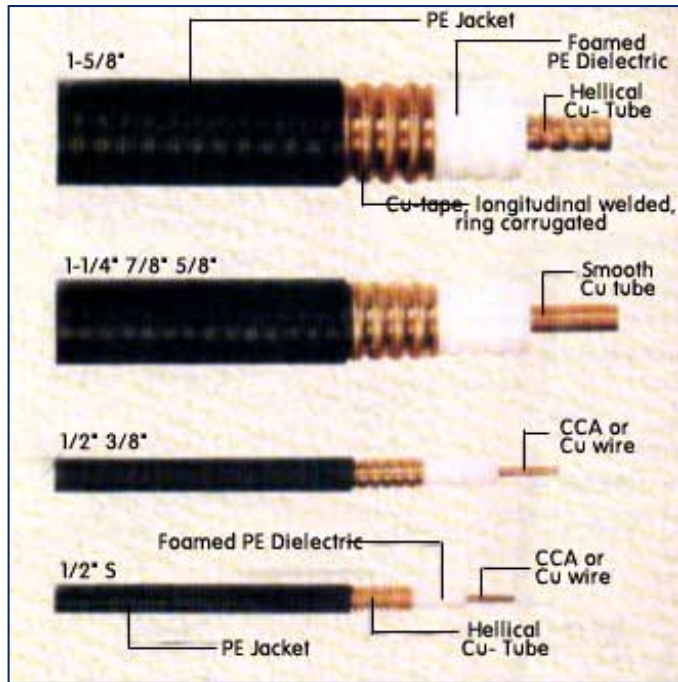




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Corrugated Copper Tube



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TELESCOPE CABLES
50 ohms Radiating

		1-5/8"	1-1/4"	7/8"	1/2"	3/8"
Physical Dimensions						
Inner Conductor	Material	Corrugated Cu-tube	Smooth Cu-tube		CCA	
	Diameter (mm)	17.30	13.10	9.10	4.83	3.12
Dielectric	Diameter (mm)	43.50	33.30	22.70	12.30	8.00
Outer Conductor	Diameter (mm)	46.50	35.80	24.90	13.80	9.53
Jacket	Thickness	1.75	1.80	1.55	1.10	0.85
	Diameter (mm)	50.00	39.40	28.00	16.00	11.70
Mechanical Characteristics						
Min. Bending Radius (mm)		508	380	254	125	95
Max. Pulling Strength (N)		4550	6780	1470	1130	1130
Electrical Characteristics						
(20°) (ohms) /km DC Resistance	Inner Conductor	0.69	0.72	0.93	1.48	3.48
	Outer Conductor	0.36	0.54	1.10	2.20	3.30
Nominal Capacitance (pF/m)				76		
Characteristic Impedance(ohms)				50 ± 2		
Velocity Rate (%)				88		
Attenuation (20°)	150Mhz	1.10	1.30	1.80	3.30	4.90
	450Mhz	2.00	2.80	3.60	6.60	8.50
(dB/100m)	900Mhz	3.30	4.30	5.30	9.50	12.10
	1700Mhz	4.60	5.90	7.50	13.10	17.40
Mean Power Rating (Kw) (Ambient Temperature 40°C, Inner Conductor 80°)	150Mhz	0.80	7.50	4.30	1.50	0.92
	450Mhz	5.90	4.10	2.40	0.85	0.51
	900Mhz	3.90	2.80	1.60	0.58	0.35
	1700Mhz	2.70	1.90	1.10	0.40	0.24

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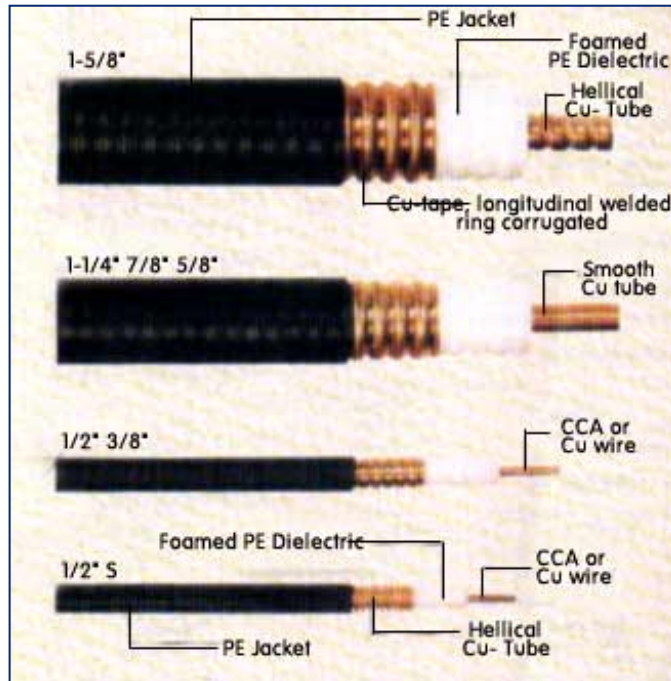
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Products

TELESCOPE CABLES
50 ohms Radiating

		1-5/8"	1-1/4"	7/8"	1/2"	3/8"
Physical Dimensions						
Coupling Loss (6m) (dB + 10dB)	150Mhz	61	59	58	58	56
	450Mhz	68	66	63	63	61
	900Mhz	72	71	69	68	68
	1700Mhz	77	73	72	73	74
(VSWR)	0-3GHz			<= 1.30		



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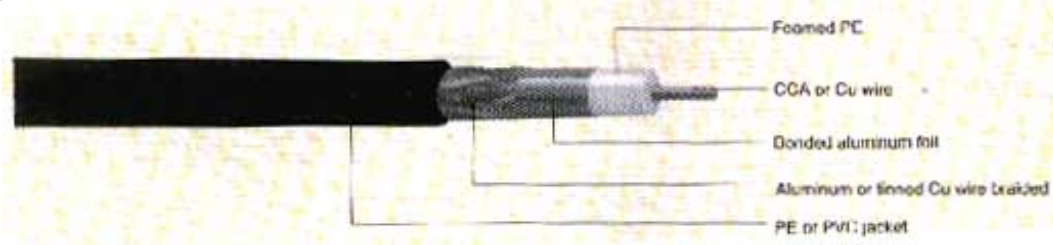
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Products

TELESCOPE CABLES
Braiding Types 50 ohms

			12D-FB	10D-FB	8D-FB	7D-FB	5D-FB
Physical Dimensions							
Inner Conductor (Dia. mm)			4.40	3.50	2.80	2.60	1.80
Dielectric (Dia. mm)			12.40	10.00	7.80	7.30	5.00
Outer Conductor (Dia. mm)			13.30	11.00	8.70	8.20	5.80
Jacket (Dia. mm)			15.60	13.00	10.40	9.80	7.50
Attenuation (20°)	(db/100m)	150Mhz	3.40	4.10	-	5.30	-
		280Mhz	4.70	5.60	-	7.30	-
		350Mhz	5.30	6.30	-	8.30	-
		400Mhz	5.80	6.90	8.80	9.10	13.00
		800Mhz	8.50	10.20	-	13.00	-
		900Mhz	9.20	11.10	14.00	14.30	20.40
		1200Mhz	10.90	13.40	16.70	17.00	24.20
		1500Mhz	12.30	15.30	19.20	19.70	27.50
		1900Mhz	14.30	17.70	22.20	22.90	31.80
Inner Conductor Resistance ohms/km			1.16	1.83	2.86	3.31	7.05
Insulation Resistance M ohms/km			1000				
Voltage Withstand (AC V/min)			1000				
Characteristic Impedance (ohms)			50 ± 2				
Echo Loss (dB)	VHF		20				
	UHF		18				



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Annealed bare/tinned high conductivity copper. PVC/PE/Cellular PE insulated. Insulated cores twisted to form a pair. Pairs laid up in sub-units/units in concentric layers. Taped. Overall PVC sheathed. Individual and or overall shielding with Aluminium-Mylar tape/copper tape/lapping/braiding provided depending upon the requirement. Armouring provided with an extruded inner PVC/PE sheath and overall sheath of PVC/PE wherever required.

Application :

For telephone switching Exchanges, Switch board & telephone wiring (MDF, SDH, DWDM, DSLAM etc.,). Pulse code modulation systems. RS-232 Communication Systems and Digital Transmission networks.

TELECOMMUNICATION

Standard Specification :

DOT (GWIR 06/02) / C-DOT/ VDE:0815, 0816 /IEc:189 / IS:5608
Customer Standards like Alcatel, Siemens, Lucent, Fujitsu etc.,

Characteristics :

- Suitable for operation at voltage of 250 Volts.
- Cable suitable for conductor operating temperature 70 o C, 85 o C & 105 o C shall be provided on request.

Delivery Lengths :

250-500-1000 meters. Other lengths upon request

Special Properties :

Fire Retardant/Fire Retardant Low Smoke/Zero Halogen Low Smoke & Sheath material shall be supplied on request.

Technical Data Sheet

No of pairs	Conductor size (mm)	Insulation thickness nominal (mm)	Dia over insulation (mm)	Sheath thickness minimum (mm)	Overall dia approx (mm)
2 Pair	0.4	0.25	0.9	0.50	3.5
4 pair	0.4	0.25	0.9	0.65	5.5
8 Pair	0.4	0.25	0.9	0.65	7.0
16 Pair	0.4	0.25	0.9	0.75	9.5
24 Pair	0.4	0.25	0.9	0.75	11.0
32 Pair	0.4	0.25	0.9	0.75	12.5
32 Pair	0.5	0.25	1.0	0.75	13.0
53 Pair	0.4	0.25	0.9	1.10	16.0
102 Pair	0.4	0.25	0.9	1.40	22.5
128 Pair	0.4	0.25	0.9	1.40	26.0
128 Pair	0.5	0.25	1.0	1.40	27.0
204 Pair	0.4	0.25	0.9	1.80	31.0

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Products

Telecommunication cables



Identification

Pair color in each unit of 8 pairs	Color binder tape for each unit of 8 pairs	Color binder tape for each bundle of 4 units of 8 pairs
	Unit 1 :	Bundle 1 :
	Unit 2 :	Bundle 2 :
	Unit 3 :	Bundle 3 :
	Unit 4 :	Bundle 4 :

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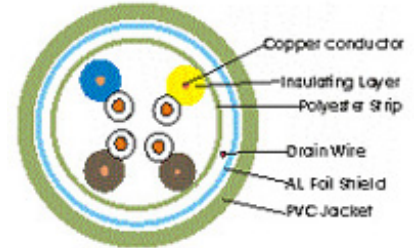


Products

Lan/Structural cables



Data Cables : These are cables that lead from your computer to your GPS device. These tend to use the newer USB or the older serial protocol.



Product State		Transmission Characteristics	
Type	CAT-5E FTP	Impedance(z ₀) 1-100MHz	100 ± 15ohms
Standard	4 Pairs	Attenuation(IL) 100MHz	: 22dB/100m
Material Construction		Return Loss(RL) 100 MHz	20dB/100m
		Next 100MHz	35 dB/100m
Conductor	Copper 0.50mm	PSNEXT 100 MHz	32.3dB/100m
Insulator	Solid PE 1.00mm	ELFEXT 100MHz	24dB/100m
Tape	Polyester Ribbon 30mm	PSELFEXT 100MHz	21dB/100m
Drain wire	Tinplate Copper 0.50	Velocity of propagation 100MHz	0.620/100m
Shield	AL Foil 70mm	Delay 100MHz	538 ns/100m
Jacket	PVC	Speed (SKEW) 1-100MHz	45ns/100m
Delivery Instruction		Product Standard	
Length	305m/box	ISO/IEC 11801	
Diameter	6.5 ± 0.1mm	ANSI/EIA/TIA-568-B	
Max Strain Power	80N	YD/T1019-2001	
Temperature Range	-40°C ~ +60°C	YD/T838-1976	
		UL-444	

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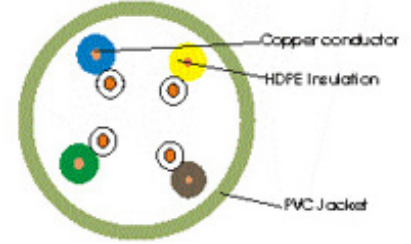


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Products

Lan/Structural cables



Product State	
Type	CAT -6E FTP
Standard	4Pairs

Material Construction	
Conductor	Copper 0.55 mm
Insulation	Solid PE 1.10mm
Type	Polyster Ribbon 30mm
Drain wire	Tinplate Copper 0.50
Shield	AL Foil 70mm
Jacket	PVC

Delivery Instruction	
Length	305m/box
Diameter	7.3 ± 0.1mm
Max Strain Power	80N
Temperature Range	-40°C ~ +60°C

Transmission Characteristics	
Impedance(ZO) 1-250MHz	100 ± 15 Ohms
Attenuation(IL) 250MHz	22dB/100m
Return Loss(RL) 250 MHz	20dB/100m
Next 250MHz	38.3dB/100m
PSNEXT 250 MHz	: 36.3dB/100m
ELFEXT 250MHz	19.8dB/100m
PSELFEXT 250MHz	16.8dB/100m
Velocity of propagation 250MHz	0.620/100m
Delay 250MHz	538 ns/100m
Speed(SKEW)1-250MHz	45ns/100m

Product Standard	
ISO/IEC 11801	
ANSI/EIA/TIA-568-B	
YD/T1019-2001	
YD/T838-1976	
UL-444	

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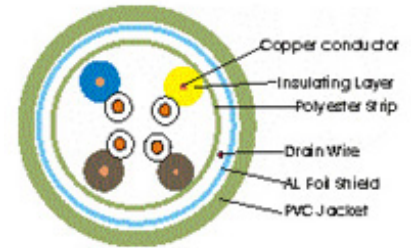


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Products

Lan/Structural cables



Product State	
Type	CAT -6E UTP
Standard	4Pairs

Material Construction	
Conductor	Copper 0.55 mm
Insulation	Solid PE 1.00mm
Center Cross	PE
Jacket	PVC

Transmission Characteristics	
Impedance(ZO) 1-250MHz	100 ± 15 Ohms.
Attenuation(IL) 250MHz	32.8dB/100m
Return Loss(RL) 250 MHz	17.3 dB/100m
Next 250MHz	38.3dB/100m
PSNEXT 250 MHz	36.3dB/100m
ELFEXT 250MHz	19.8dB/100m
PSELFEXT 250MHz	16.8dB/100m
Velocity of propagation 250MHz	0.620/100m
Delay 250MHz	536 ns/100m
Speed(SKEW)1-250MHz	45ns/100m

Delivery Instruction	
Length	305m/box
Diameter	6.8 ± 0.1mm
Max Strain Power	80N
Temperature Range	-40°C ~ +60°C

Product Standard	
ISO/IEC 11801	
ANSI/EIA/TIA-568-B	
YD/T1019-2001	
YD/T838-1976	
UL-444	

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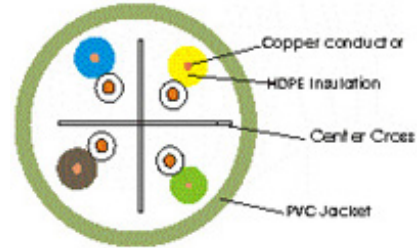


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Products

Lan/Structural cables



Product State	
Type	CAT -5E UTP
Standard	4Pairs
Material Construction	
Conductor	Copper 0.50 mm
Insulation	Solid PE 0.90 mm
Jacket	PVC

Transmission Characteristics	
Impedance(ZO) 1-100MHz	100±15 Ohms.
Attenuation(IL) 100MHz	22dB/100m
Return Loss(RL) 100 MHz	20dB/100m
Next 100MHz	35 dB/100m
PSNEXT 100 MHz	32.3dB/100m
ELFEXT 100MHz	24dB/100m
PSELFEXT 100MHz	21dB/100m
Velocity of propagation 100MHz	0.620/100m
Delay 100MHz	538 ns/100m
Speed(SKEW)1-100MHz	45ns/100m

Delivery Instruction	
Length	305m/box
Diameter	5.4 ± 0.1mm
Max Strain Power	80N
Temperature Range	-40°C ~ +60°C

Product Standard	
ISO/IEC 11801	
ANSI/EIA/TIA-568-B	
YD/T1019-2001	
YD/T838-1976	
UL-444	

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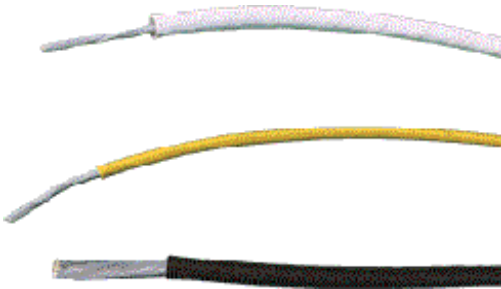


PTFE cables

Products

- » **PTFE Equipment Wires**
(PTFE: Poly-Tetra-Flouro-Ethylene)
- » **PTFE Multicore Cables**
- » **RF-Coaxial Cables**
- » **Compensating & Extension**
(Thermocouple Cables)
- » **PTFE Electrical Sleeveings**
- » **PTFE Heaters**
- » **PTFE High Voltage Cables**
(Corona Resistant)
- » **High Temperature Power Cables**
- » **Relemac-Gold Teflon Fire Safety Wires**
- » **Cable Harness & Cable Assemblies**

PTFE Equipment Wires

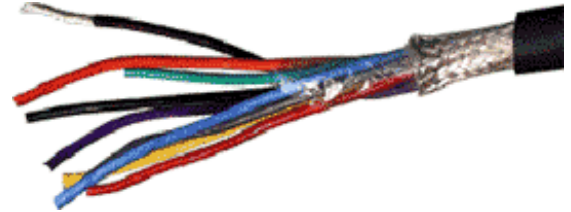


PTFE cables have outstanding Mechanical & electrical properties, these are heat resistant, Its properties qualify them for an ever widening range of wiring applications ,they are used in many situations, where temperatures are of + 180°C and above or where temperatures are below Minus 40°C. In most adverse uses, where chemical fumes and liquids would render all other cables useless. PTFE is the most well known and durable polymer and has been used in the cable industry for many years. Its outstanding dielectric properties, even at elevated temperatures, make it most suitable for insulation of cables

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PTFE Multicore Cables

Relemac PTFE manufactures a wide variety of multicore cables, for use in instrumentation of power projects, chemical & fertilizers, steel plants & various other type of Engineering industries. The multicore cables are available in unshielded twisted cores and PTFE Jacketed and Shielded twisted cores/ twisted pairs and overall PTFE jacketed cables. Shield is provided to prevent electrostatic interference, it keeps external electrical disturbances away from affecting the signal and eliminates the unwanted transfer of signal between circuits of same cable such as cross talk. For short distances having low speed digital data transmission unshielded cables, twisted multicore or multi-pair can be used. These multicore cables are the connecting link between the central instrumentation and various transducers.



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RF-Coaxial Cables



High frequency transmission of signals in computer complexes, industrial electronics & maintenance is being done with the help of Co-axial cables. Because of its wide electrical, Mechanical and thermal properties, Co-axial cables are the solution of most diverse application problems especially in the sector of high frequency technology. The Co-axial cable type RG were originally developed for Military applications. They meet the requirements of American Military regulation MIL-C-17, because of their internationally acclaimed constant high quality, they are today employed throughout the whole field of H.F. Technology.

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Products



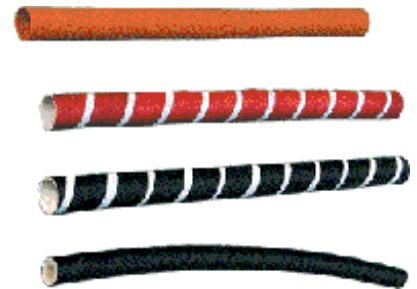
Compensating & Extension (Thermocouple Cables)



Compensating cables are indispensable for precise temp. measurement at remote measurement points, they serve as extension leads from the thermocouple sensor to the measuring instrument. Compensating cables are made from metallic materials having similar thermoelectric properties as the thermocouple in use, the extension wires are made with similar material as of thermocouple element and are expensive, but cheap alloys of different combinations having milli-volts (e.m.f.) matched as closely as possible to the thermocouple at ambient temperatures to thermocouple are compensating wires. We supply insulation and sheathing to meet the various applications, there is a choice of PVC, Asbestos, Silicon, Fibre-glass, PTFE having screen of Stainless steel, Tinned plated, Copper wire or silver plated copper wire.

PTFE Electrical Sleeveings

PTFE Sleeveing is available as per the requirements of Indian Defense Standard JSS 54802 (LCSO approved) The Sleeves are made by tape wrapping and sintering process with colours Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White, Pink, Natural & several colour combinations of above. PTFE Electrical Sleeveings can withstand, 1) Operating temperature from -65°C to $+260^{\circ}\text{C}$. 2) Resistant to flame, hydraulic fluids, chemicals, aircraft & rocket fuel, even at elevated temperatures.



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PTFE Heaters

PTFE Insulated Heater wires find a large number of applications in process industries these are available in wire or coil form, for a fixed resistance value per meter. Various type of heating solutions for process heating upto 200°C can be designed with these heaters.



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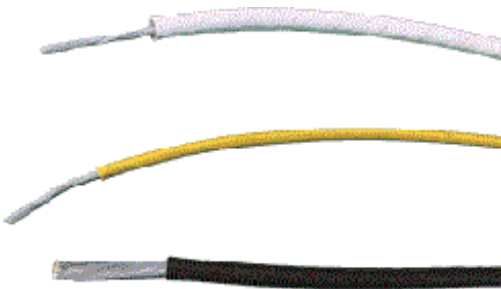


Products

PTFE cables



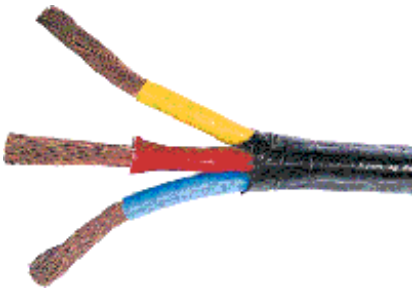
PTFE High Voltage Cables (Corona Resistant)



There are applications when high voltage is applied at elevated temperatures, PTFE insulation is most suitable, which has stable dielectric properties upto 250°C. Some standard sizes having specially formulated PTFE with Corona Resistant features, shows excellent results at high voltage.

Top ^

High Temperature Power Cables



These cables are designed to work with high current loads at high temperature environment conditions, such as wiring of furnace heaters, ovens and Industrial wiring under harsh working conditions. Conductors are made of fine multi-strand Bare/Silver Plated copper strands, PTFE insulated for 600 V / 1000 V working voltage grade, having suitable insulation thickness, which can bear the mechanical load of heavy conductor, overall fiber glass braided & silicone varnished to provide surface protection to inner dielectric for extra mechanical stability. It can be further braided armored with stainless steel wire or tin plated copper wire. Relemac Wires & Cables manufacture both Single & Multi-core power cables. Basic Cores are insulated with PTFE for 600 V working grade laid up and PTFE Jacketed overall fiber glass braided with silicone varnish or stainless steel braided for mechanical protection, However combination of both FG and SS can also be given.

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Relemac-Gold Teflon Fire Safety Wires

These cables are suitable for domestic and industrial wiring of building and electrical installations. These Cables are designed for high cost and Sensitive installations where fire from electrical short circuits may cause damage to human life & property. Most useful for Building wiring of hotels, restaurants, computer rooms, multi-storied buildings, commercial buildings like cinema halls, hospitals, industrial wiring, showrooms etc. These cables have fine strands of pure electrolytic grade copper with a layer of PTFE wrapping & sintered and overall high Heat resistant PVC (105°C) coated. (HR PVC)



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Products



Cable Harness & Cable Assemblies



Ready to Install Cable Harness are most economical, saves lot of time and money and wastage at user end. These cables are made as per customers own requirements and drawings, stripped, fitted with end connectors at given lengths, sealed with Heat shrinkable sleeves, for mechanical stability, tested for reliability. A ready made cable Harness with all necessary terminals connectors & other components can be installed easily, with no possibility of failures.

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Products



**XLPE
cables**

Cross Linked Polyethene Cables (XLPE)

- » Relemac Cables, pioneered the manufacture of Cross Linked Polyethene (XLPE) Power Cables in India.
- » Dry Cured & Drycooled CCV Line with State-of-the-art extrusion process.
- » Design as per Indian and International Standards.
- » Approved by leading consultants.

Manufacturing Range

- 1kV upto 132kV
- Aluminium and Copper Conductors
- Single Core Cables upto 1000 sqmm
- Multi Core Cables upto 630 sqmm
- FRLS Sheathed Cables
- Aerial Bunched Cables

Single Core Aluminium Conductor XLPE Insulated PVC Sheathed Cables Unarmoured A2XY

Product Type	KV Range	Specification	
unscreened	3.3 KV	View	Cable Construction
screened	3.8 / 6.6 KV	View	Cable Construction
screened	6.36 / 11 kV	View	Cable Construction
screened	11 / 11 kV	View	Cable Construction
screened	12.7 / 22 kV	View	Cable Construction
screened	19 / 33 kV	View	Cable Construction

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Nominal Area of Cond'tor Sq.mm	Unarmoured			Armoured				Max.D.C. Conductor Resistance at 20°C Ohm/KM	A.C.Current Rating								
	Nominal Thickness of PVC ins. mm	Appx Overall Dia. mm	Appx. wt Kg/km	Nominal Thickness of PVC ins. Mm	Nominal Armour Size mm W F	Appx Overall Dia. mm	Appx wt Kg/km		In Air at 40°C				In Ground at 30°C				
									PVC insulation Amps 2C 3C		HRPVC insulation Amps 2C 3C		PVC insulation Amps 2C 3C		HRPVC insulation Amps 2C 3C		
10	1.0	10	110	1.3	1.4	13	220	3.080	56	47	67	56	59	51	67	58	
16	1.0	12	155	1.3	1.4	15	280	1.910	72	64	86	77	75	66	86	75	
25	1.2	13	190	1.5	1.4	16	330	1.200	99	84	119	101	97	86	111	98	
35	1.2	14	230	1.5	1.4	17	380	0.868	120	105	144	126	120	100	137	114	
50	1.4	16	290	1.7	1.4	19	460	0.641	150	130	180	156	145	120	165	137	
70	1.4	17	370	1.7	1.4	20	550	0.443	185	155	222	186	170	140	194	160	
95	1.6	20	480	1.9		4X0.8	22	620	0.320	215	190	258	228	205	175	234	200
120	1.6	21	590	1.9		4X0.8	24	720	0.253	240	220	288	264	230	195	262	222
150	1.8	23	700	2.1		4X0.8	25	850	0.206	270	250	324	300	265	220	302	251
185	2.0	25	850	2.3		4X0.8	27	1010	0.164	305	290	366	348	300	240	342	274
240	2.2	28	1060	2.5		4X0.8	30	1245	0.125	350	335	420	402	335	270	382	308
300	2.4	30	1280	2.7		4X0.8	33	1495	0.100	395	380	474	456	370	295	422	336
400	2.6	34	1640	3.0		4X0.8	37	1860	0.0778	455	435	546	522	410	325	467	371
500	3.0	38	2070	3.4		4X0.8	41	2310	0.0605	490	480	588	576	435	345	496	393
630	3.4	43	2640	3.9		4X0.8	45	2920	0.0469	560	550	672	660	485	390	553	445
800	3.4	49	3295	3.9		4X0.8	52	3710	0.0367	640	630	768	756	530	440	604	502
1000	3.4	51	3945	3.9		4X0.8	54	4375	0.0291	740	720	888	864	580	490	661	559



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Nominal Area of Cond'tor Sq.mm	Unarmoured			Armoured				Max.D.C. Conductor Resistance at 20°C Ohm/KM	A.C.Current Rating				
	Nominal Thickness of PVC ins. mm	Appx Overall Dia. mm	Appx. wt Kg/km	Nominal Thickness of PVC ins. Mm	Nominal Armour Size mm		Appx Overall Dia. mm		Appx wt Kg/km	In Air at 40°C		In Ground at 30°C	
					W	F				PVC insulation Amps 2C 3C	HRPVC insulation Amps 2C 3C	PVC insulation Amps 2C 3C	HRPVC insulation Amps 2C 3C
4	1.0	14	200	1.0	1.4		18	580	7.410	27	32	32	36
6	1.0	15	240	1.0	1.4		19	660	4.610	35	42	40	46
10	1.0	17	280	1.0	1.4		21	740	3.080	47	56	55	63
16	1.0	20	400	1.0		4X0.8	23	770	1.910	59	71	70	80
25	1.2	20	430	1.2		4X0.8	21	680	1.200	78	94	90	103
35	1.2	22	50	1.2		4X0.8	23	780	0.868	99	119	110	125
50	1.4	25	650	1.4		4X0.8	26	960	0.641	125	150	135	154
70	1.4	28	820	1.4		4X0.8	29	1180	0.443	150	180	160	182
95	1.6	32	1100	1.6		4X0.8	33	1500	0.320	185	222	190	217
120	1.6	33	1260	1.6		4X0.8	34	1680	0.253	210	252	210	239
150	1.8	36	1530	1.8		4X0.8	38	1990	0.206	240	288	240	274
185	2.0	40	1860	2.0		4X0.8	41	2380	0.164	275	330	275	314
240	2.2	45	2370	2.2		4X0.8	46	2960	0.125	325	390	320	365
300	2.4	50	2920	2.4		4X0.8	51	3610	0.100	365	438	355	405
400	2.6	56	3700	2.6		4X0.8	57	4410	0.0778	420	504	385	439



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Nominal Area of Cond'tor Sq.mm	Unarmoured			Armoured				Max.D.C. Conductor Resistance at 20°C Ohm/KM	A.C.Current Rating								
	Nominal Thickness of PVC ins. mm	Appx Overall Dia. mm	Appx. wt Kg/km	Nominal Thickness of PVC ins. Mm	Nominal Armour Size mm		Appx Overall Dia. mm		Appx wt Kg/km	In Air at 40°C				In Ground at 30°C			
					W	F				PVC insulation Amps		HRPVC insulation Amps		PVC insulation Amps		HRPVC insulation Amps	
2C	3C	2C	3C	2C	3C	2C	3C	2C	3C	2C	3C	2C	3C				
10	1.0	10	110	1.3	1.4	13	220	3.080	56	47	67	56	59	51	67	58	
16	1.0	12	155	1.3	1.4	15	280	1.910	72	64	86	77	75	66	86	75	
25	1.2	13	190	1.5	1.4	16	330	1.200	99	84	119	101	97	86	111	98	
35	1.2	14	230	1.5	1.4	17	380	0.868	120	105	144	126	120	100	137	114	
50	1.4	16	290	1.7	1.4	19	460	0.641	150	130	180	156	145	120	165	137	
70	1.4	17	370	1.7	1.4	20	550	0.443	185	155	222	186	170	140	194	160	
95	1.6	20	480	1.9		4X0.8	22	620	0.320	215	190	258	228	205	175	234	200
120	1.6	21	590	1.9		4X0.8	24	720	0.253	240	220	288	264	230	195	262	222
150	1.8	23	700	2.1		4X0.8	25	850	0.206	270	250	324	300	265	220	302	251
185	2.0	25	850	2.3		4X0.8	27	1010	0.164	305	290	366	348	300	240	342	274
240	2.2	28	1060	2.5		4X0.8	30	1245	0.125	350	335	420	402	335	270	382	308
300	2.4	30	1280	2.7		4X0.8	33	1495	0.100	395	380	474	456	370	295	422	336
400	2.6	34	1640	3.0		4X0.8	37	1860	0.0778	455	435	546	522	410	325	467	371
500	3.0	38	2070	3.4		4X0.8	41	2310	0.0605	490	480	588	576	435	345	496	393
630	3.4	43	2640	3.9		4X0.8	45	2920	0.0469	560	550	672	660	485	390	553	445
800	3.4	49	3295	3.9		4X0.8	52	3710	0.0367	640	630	768	756	530	440	604	502
1000	3.4	51	3945	3.9		4X0.8	54	4375	0.0291	740	720	888	864	580	490	661	559



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Products



Single Core Aluminium Conductor XLPE Insulated PVC Sheathed Cables Round Wire Armoured A2XWaY

Product Type	KV Range	Specification	
unscreened	3.3 KV	View	Cable Construction
screened	3.8 / 6.6 kV	View	Cable Construction
screened	6.36 / 11 kV	View	Cable Construction
screened	11 / 11 kV	View	Cable Construction
screened	12.7 / 22 kV	View	Cable Construction
screened	19 / 33 kV	View	Cable Construction

Three Core Aluminium Conductor XLPE Insulated extended / taped PVC Inner Sheath Cables, Flat Strip Armoured A2XFY (P/T). Cables are available with both Taped(T) and extended PVC (P) inner sheath as per customer requirements.

Product Type	KV Range	Specification	
unscreened	3.3 KV	View	Cable Construction
screened	3.8 / 6.6 kV	View	Cable Construction
screened	6.36 / 11 kV	View	Cable Construction
screened	11 / 11 kV	View	Cable Construction
screened	12.7 / 22 kV	View	Cable Construction
screened	12.7 / 22 kV	View	Cable Construction
screened	19 / 33 kV	View	Cable Construction

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Three Core Aluminium Conductor XLPE Insulated PVC Sheathed Cables Round Wire Armoured A2XWY P

Product Type	KV Range	Specification	
unscreened	3.3 KV	View	Cable Construction
screened	3.8 / 6.6 kV	View	Cable Construction
screened	6.36 / 11 kV	View	Cable Construction
screened	11 / 11 kV	View	Cable Construction
screened	12.7 / 22 kV	View	Cable Construction
creened	19 / 33 kV	View	Cable Construction

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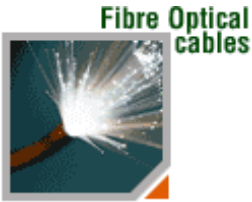




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Optic Fibre Cables

- Single mode/Multimode
- Duct (unarmoured), Armoured (Direct Buried) & Self Supporting Aerial construction.
- Special construction for specialised applications viz steel wire armoured, FRP stranded (rodent resistant, pultrusion equivalent).
- Uni-tube & Multi-tube Construction.
- 2 Fibre upto 512 Fibre Cables
- Low Halogen Sheath Cables.
- Ribbon of Cable

Types of Optic Fibre Cables

- » Metal Free Optic Fibre Cable (DUCT) - Uni Tube 2F upto 48F
- » Metal Free Optic Fibre Cable (DUCT) - Multi Tube 4F upto 216F
- » Optic Fibre Cable (Single Sheath) - Uni Tube Armoured 2F upto 48F
- » Optic Fibre Cable (Double Sheath) - Multi Tube Armoured 2F upto 216F



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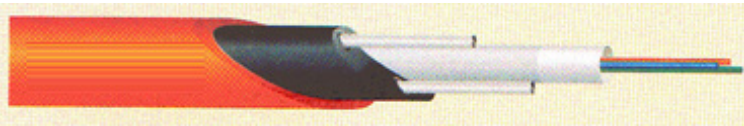


Products

**Fibre Optical
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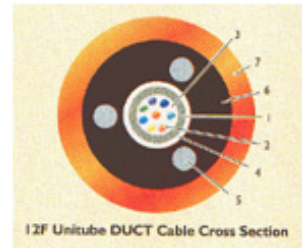
Metal Free Optic Fibre Cable (DUCT) - Uni Tube 2F upto 48F



Applications

- High Speed Voice, video and data transmission.
- Local Area Network
- Local Haul Network
- Fibre Channel (CATV, Multimedia, etc)

1. One Central Poly Butylene Terephthalate (PBT) loose tube.
2. Optic Fibre are housed in loose tube.
3. Thixotropic jelly injected in loose tubes with Fibre.
4. WST is wrapped around the loose tube to make cable water-proof.
5. FRP rods embedded within HDPE sheath.
6. HDPE sheath as inner layer.
7. Anti-termite Nylon 12 jacket extruded over HDPE sheath.



Technical Specifications From 6F to 48F Cable

Description	Typical Values
Single Mode Optical Fibre	Complying to ITU G. 652
Fibre Colour Code	Blue, Orange, Green, Brown, Slate/ Grey, White, Red, Black, Yellow, Violet, Rose / Pink, Natural / Aqua
Uni Tube Colours	Natural, Blue, Orange, Green, Brown
Optical Performance	Attenuation @ 1310nm, ≤ 0.38dB / km, Attenuation @ 1550nm, ≤ 0.25dB / km

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Metal Free Optic Fibre Cable (DUCT) - Uni Tube 2F upto 48F

Mechanical Performance	Tensile Strength		Min Bend Radius	Impact	Torsion	
	1.3W	2.5W	20D	50N	100N	
Environmental Performance	Temperature		Operating	Installation	Storage / Shipping	
	Specification		-20°C to + 70° C	-20°C to + 70° C	-30°C to + 70° C	
Physical	Description		6 Fibre	12 Fibre	24 Fibre	48 Fibre
	Elements/Fibre count		1/6	1/12	1/12 x12	1/4 x 12
	Nom cable dia. (mm)		7.7	8.0	9.2	10.2
	Nom cable Wt. (kg/km)		50	54	69	85
	Std. Length		2/4km ±10%	2/4 km± 10%	2/4 km± 10%	2/4 km± 10%
	Testing & Inspection		<ol style="list-style-type: none"> 1. State-of-the-art testing facility. 2. As per Quality Assurance Plan / Customer requirements 3. Complete traceability at any point of time 4. Assistance on filed provided upon request. 			

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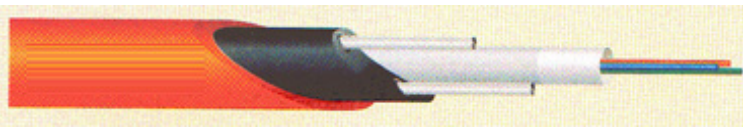


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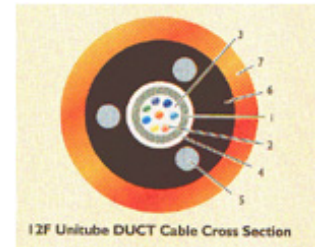
Metal Free Optic Fibre Cable (DUCT) - Multi Tube 4F upto 216F



1. Fibre Reinforced Plastic as dielectric central strength member.
2. Six Poly Butylene Terephthalate (PBT) loose tubes stranded around the central strength member to form the cable core.
3. Optic Fibre are housed in loose tube.
4. Thixotropic jelly injected in loose tube with Fibre.
5. Interstices within the cable core flooded with jelly.
6. Polyester tape is wrapped around the cable core.
7. High-density polyethylene sheath.
8. Anti-termite Nylon-12 jacket extruded over HDPE sheath.

Applications

- High Speed Voice, video and data transmission.
- Local Area Network
- Long Haul Network
- Fibre Channel (CATV, Multimedia, etc)



Technical Specifications From 6F to 48F Cable

Description	Typical Values
Single Mode Optic Fibre	Complying to ITU G. 652
Fibre Colour Code	Blue, Orange, Green, Brown, Slate/ Grey, White, Red, Black, Yellow, Violet, Rose / Pink, Natural / Aqua
Buffer Loose Tube Colours(Optional)	Blue, Orange, Green, Brown, Slate/ Grey, White, Red, Black, Yellow, Violet, Rose / Pink, Natural / Aqua
Optical Performance	Attenuation @ 1310nm, ≤ 0.38dB / km, Attenuation @ 1550nm, ≤ 0.25dB / km

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Metal Free Optic Fibre Cable (DUCT) - Multi Tube 4F upto 216F

Mechanical Performance	Tensile Strength			Min Bend Radius	Impact	Torsion	
	1W	1.3W	2.5W	20D	50N	100N	
Environmental Performance	Temperature			Operating	Installation	Storage / Shipping	
	Specification			-20°C to + 70° C	-20°C to + 70° C	-30°C to + 70° C	
Physical	Description		6 Fibre	12 Fibre	24 Fibre	48 Fibre	48 Fibre
	Elements/Fibre count		6/2x3+3Fillers	6/4x3+3Fillers	6/4 x6	6/8x6	6/12x4+2Fillers
	Nom cable dia. (mm)		10.1	10.1	10.1	11.3	11.7
	Nom cable Wt. (kg/km)		82	83	84	105	112
	Std. Length		2/4km ±10%	2/4 km± 10%	2/4 km± 10%	2/4 km ± 10%	2/4 km± 10%
Testing & Inspection	<ol style="list-style-type: none"> 1. State-of-the-art testing facility. 2. As per Quality Assurance Plan / Customer requirements 3. Complete traceability at any point of time 4. Assistance on filed provided upon request. 5. Fillers are dummy tubes used to provide circularity to cable core.2x3 means 2F per tube with 3 tubes. 						

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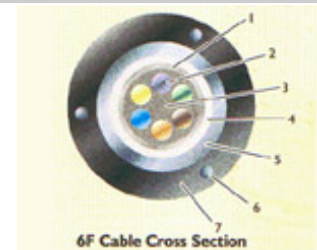
Optic Fibre Cable (Single Sheath) - Uni-Tube Armoured(2F upto 48F)



1. One Central Poly Butylene Terephthalate(PBT) loose tube.
2. Optic Fibres are housed in loose tube.
3. Thixotropic jelly injected in loose tube with Fibre.
4. WST is wrapped with the loose tube to make cable water-proof.
5. Loose tube is covered with a corrugated SS tape / ECCS tape.
6. FRP rods or steel wires embedded within the HDPE jacket..
7. Anti-termite HDPE jacket extruded over corrugated SS tape.

Applications

- High Speed Voice, video and data transmission.
- Local Area Network
- Long Haul Network
- Fibre Channel (CATV, Multimedia, etc)



Technical Specifications From 6F to 48F Cable

Description	Typical Values						
Single Mode Optic Fibre	Complying to ITU G. 652						
Fibre Colour Code	Blue, Orange, Green, Brown, Slate/ Grey, White, Red, Black, Yellow, Violet, Rose / Pink, Natural / Aqua						
Buffer Loose Tube Colours (Optional)	Natural, Blue, Orange, Green						
Optical Performance	Attenuation @ 1310nm, ≤ 0.38dB / km, Attenuation @ 1550nm, ≤ 0.25dB / km						
Mechanical Performance	Tensile Strength				Min Bend Radius	Impact	Torsion
	1W	1.3W	2.0W	2.5W	20D	50N	400N

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Optic Fibre Cable (Single Sheath) - Uni-Tube Armoured(2F upto 48F)

Enviornmental Performance	Temperature	Operating	Installation	Storage / Shipping	
	Specification	-20°C to + 70° C	-20°C to + 70° C	-30°C to + 70° C	
Physical	Description Cable	6 Fibre	12 Fibre	24 Fibre	48 Fibre
	Elements/Fibre count	1/6	1/12	1/2 x12	1/4x12
	Nom cable dia. (mm)	11.5	11.5	12.1	13.9
	Nom cable Wt. (kg/km)	128	129	146	184
	Std. Length	2/4km ±10%	2/4 km± 10%	2/4 km± 10%	2/4 km± 10%
Testing & Inspection	<ol style="list-style-type: none"> 1. State-of-the-art testing facility. 2. As per Quality Assurance Plan / Customer requirements 3. Complete traceability at any point of time 4. Assistance on filed provided upon request. 				

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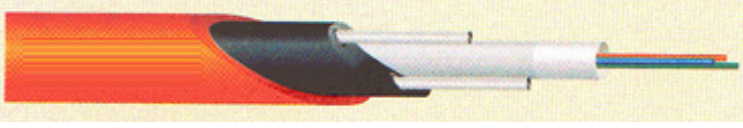


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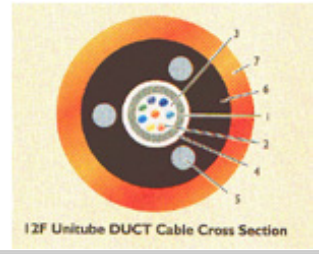
Optic Fibre Cable (Double Sheath) - Multi Tube ARMoured 2F upto 216F



1. Fibre Reinforced Plastic as dielectric central strength member.
2. Six Poly Butylene Terephthalate (PBT) loose tubes stranded around the central strength member to form the cable core.
3. Optic Fibre are housed in loose tube.
4. Thixotropic jelly injected in loose tube with Fibre.
5. Polyester tape is wrapped around the cable core.
6. Interstices within the cable core flooded with jelly
7. High-density polyethylene sheath as a inner sheath.
8. Inner sheath is covered with a corrugated SS tape/ FCCS tape.
9. Anti-termite HDPE jacket extruded over corrugated SS tape as outer sheath.

Applications

- High Speed Voice, video and data transmission.
- Local Area Network
- Long Haul Network
- Fibre Channel (CATV, Multimedia, etc)



Technical Specifications From 6F to 48F Cable

Description	Typical Values
Single Mode Optic Fibre	Complying to ITU G. 652
Fibre Colour Code	Blue, Orange, Green, Brown, Slate / Grey, White, Red, Black, Yellow, Violet, Rose / Pink, Natural / Aqua
Buffer Loose Tube Colours (Optional)	Blue, Orange, Green, Brown, Slate / Grey, White, Red, Black, Yellow, Violet, Rose / Pink, Natural / Aqua
Optical Performance	Attenuation @ 1310nm, ≤ 0.38dB / km, Attenuation @ 1550nm, ≤ 0.25dB / km

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Optic Fibre Cable (Double Sheath) - Multi Tube ARMoured 2F upto 216F

Mechanical Performance	Tensile Strength				Min Bend Radius	Impact		Torsion	
	1W	1.3W	2.0W	2.5W	20D	50N		400N	
Environmental Performance	Temperature				Operating	Installation		Storage / Shipping	
	Specification				-20°C to + 70° C	-20°C to + 70° C		-30°C to + 70° C	
Physical	Description				6 Fibre	12 Fibre	24 Fibre	48 Fibre	48 Fibre
	Elements/Fibre count				6/2x3+3Fillers	6/4x3+3Fillers	6/4 x6	6/8x6	6/12x4+2Fillers
	Nom cable dia. (mm)				12.9	12.9	12.9	14.1	14.5
	Nom cable Wt. (kg/km)				155	156	157	184	193
	Std. Length				2/4km ±10%	2/4 km±10%	2/4 km±10%	2/4 km±10%	2/4 km±10%
Testing & Inspection	<ol style="list-style-type: none"> 1. State-of-the-art testing facility. 2. As per Quality Assurance Plan / Customer requirements 3. Complete traceability at any point of time 4. Assistance on filed provided upon request. 5. Fillers are dummy tubes used to provide circularity to cable core.2x3 means 2F per tube with 3 tubes. 								

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Nominal Area of Cond'tor Sq.mm	Unarmoured			Armoured				Max.D.C. Conductor Resistance at 20°C Ohm/KM	A.C.Current Rating								
	Nominal Thickness of PVC ins. mm	Appx Overall Dia. mm	Appx. wt Kg/km	Nominal Thickness of PVC ins. Mm	Nominal Armour Size mm W F	Appx Overall Dia. mm	Appx wt Kg/km		In Air at 40°C				In Ground at 30°C				
									PVC insulation Amps		HRPVC insulation Amps		PVC insulation Amps		HRPVC insulation Amps		
									2C	3C	2C	3C	2C	3C	2C	3C	
10	1.0	10	110	1.3	1.4	13	220	3.080	56	47	67	56	59	51	67	58	
16	1.0	12	155	1.3	1.4	15	280	1.910	72	64	86	77	75	66	86	75	
25	1.2	13	190	1.5	1.4	16	330	1.200	99	84	119	101	97	86	111	98	
35	1.2	14	230	1.5	1.4	17	380	0.868	120	105	144	126	120	100	137	114	
50	1.4	16	290	1.7	1.4	19	460	0.641	150	130	180	156	145	120	165	137	
70	1.4	17	370	1.7	1.4	20	550	0.443	185	155	222	186	170	140	194	160	
95	1.6	20	480	1.9		4X0.8	22	620	0.320	215	190	258	228	205	175	234	200
120	1.6	21	590	1.9		4X0.8	24	720	0.253	240	220	288	264	230	195	262	222
150	1.8	23	700	2.1		4X0.8	25	850	0.206	270	250	324	300	265	220	302	251
185	2.0	25	850	2.3		4X0.8	27	1010	0.164	305	290	366	348	300	240	342	274
240	2.2	28	1060	2.5		4X0.8	30	1245	0.125	350	335	420	402	335	270	382	308
300	2.4	30	1280	2.7		4X0.8	33	1495	0.100	395	380	474	456	370	295	422	336
400	2.6	34	1640	3.0		4X0.8	37	1860	0.0778	455	435	546	522	410	325	467	371
500	3.0	38	2070	3.4		4X0.8	41	2310	0.0605	490	480	588	576	435	345	496	393
630	3.4	43	2640	3.9		4X0.8	45	2920	0.0469	560	550	672	660	485	390	553	445
800	3.4	49	3295	3.9		4X0.8	52	3710	0.0367	640	630	768	756	530	440	604	502
1000	3.4	51	3945	3.9		4X0.8	54	4375	0.0291	740	720	888	864	580	490	661	559



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Nominal Area of Conductor Sq.mm	Unarmoured			Armoured				Max.D.C. Conductor Resistance at 20°C Ohm/KM	A.C.Current Rating					
	Nominal Thickness of PVC ins. mm	Appx Overall Dia. mm	Appx. wt Kg/km	Nominal Thickness of PVC ins. Mm	Nominal Armour Size mm W F		Appx Overall Dia. mm		Appx wt Kg/km	In Air at 40°C		In Ground at 30°C		
										PVC insulation Amps 2C 3C	HRPVC insulation Amps 2C 3C	PVC insulation Amps 2C 3C	HRPVC insulation Amps 2C 3C	
4	1.0	14	200	1.0	1.4		18	580	7.410	27	32	32	36	
6	1.0	15	240	1.0	1.4		19	660	4.610	35	42	40	46	
10	1.0	17	280	1.0	1.4		21	740	3.080	47	56	55	63	
16	1.0	20	400	1.0			23	770	1.910	59	71	70	80	
25	1.2	20	430	1.2			4X0.8	21	680	1.200	78	94	90	103
35	1.2	22	50	1.2			4X0.8	23	780	0.868	99	119	110	125
50	1.4	25	650	1.4			4X0.8	26	960	0.641	125	150	135	154
70	1.4	28	820	1.4			4X0.8	29	1180	0.443	150	180	160	182
95	1.6	32	1100	1.6			4X0.8	33	1500	0.320	185	222	190	217
120	1.6	33	1260	1.6			4X0.8	34	1680	0.253	210	252	210	239
150	1.8	36	1530	1.8			4X0.8	38	1990	0.206	240	288	240	274
185	2.0	40	1860	2.0			4X0.8	41	2380	0.164	275	330	275	314
240	2.2	45	2370	2.2			4X0.8	46	2960	0.125	325	390	320	365
300	2.4	50	2920	2.4			4X0.8	51	3610	0.100	365	438	355	405
400	2.6	56	3700	2.6			4X0.8	57	4410	0.0778	420	504	385	439



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Nominal Area of Cond'tor Sq.mm	Unarmoured			Armoured				Max.D.C. Conductor Resistance at 20°C Ohm/KM	A.C.Current Rating								
	Nominal Thickness of PVC ins. mm	Appx Overall Dia. mm	Appx. wt Kg/km	Nominal Thickness of PVC ins. Mm	Nominal Armour Size mm		Appx Overall Dia. mm		Appx wt Kg/km	In Air at 40°C				In Ground at 30°C			
					W	F				PVC insulation Amps		HRPVC insulation Amps		PVC insulation Amps		HRPVC insulation Amps	
2C	3C	2C	3C	2C	3C	2C	3C	2C	3C	2C	3C	2C	3C				
10	1.0	10	110	1.3	1.4	13	220	3.080	56	47	67	56	59	51	67	58	
16	1.0	12	155	1.3	1.4	15	280	1.910	72	64	86	77	75	66	86	75	
25	1.2	13	190	1.5	1.4	16	330	1.200	99	84	119	101	97	86	111	98	
35	1.2	14	230	1.5	1.4	17	380	0.868	120	105	144	126	120	100	137	114	
50	1.4	16	290	1.7	1.4	19	460	0.641	150	130	180	156	145	120	165	137	
70	1.4	17	370	1.7	1.4	20	550	0.443	185	155	222	186	170	140	194	160	
95	1.6	20	480	1.9		4X0.8	22	620	0.320	215	190	258	228	205	175	234	200
120	1.6	21	590	1.9		4X0.8	24	720	0.253	240	220	288	264	230	195	262	222
150	1.8	23	700	2.1		4X0.8	25	850	0.206	270	250	324	300	265	220	302	251
185	2.0	25	850	2.3		4X0.8	27	1010	0.164	305	290	366	348	300	240	342	274
240	2.2	28	1060	2.5		4X0.8	30	1245	0.125	350	335	420	402	335	270	382	308
300	2.4	30	1280	2.7		4X0.8	33	1495	0.100	395	380	474	456	370	295	422	336
400	2.6	34	1640	3.0		4X0.8	37	1860	0.0778	455	435	546	522	410	325	467	371
500	3.0	38	2070	3.4		4X0.8	41	2310	0.0605	490	480	588	576	435	345	496	393
630	3.4	43	2640	3.9		4X0.8	45	2920	0.0469	560	550	672	660	485	390	553	445
800	3.4	49	3295	3.9		4X0.8	52	3710	0.0367	640	630	768	756	530	440	604	502
1000	3.4	51	3945	3.9		4X0.8	54	4375	0.0291	740	720	888	864	580	490	661	559



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Nominal Area of Cond'tor Sq.mm	Nominal Thickness of PVC ins. mm	Unarmoured		Armoured			Max.D.C. Conductor Resistance at 20°C Ohm/KM	A.C.Current Rating			
		Appx Overall Dia. mm	Appx. wt Kg/km	Nominal Armour Size mm W F	Appx Overall Dia. mm	Appx wt Kg/km		In Air at 40°C		In Ground at 30°C	
								PVC insulation Amps	HRPVC insulation Amps	PVC insulation Amps	HRPVC insulation Amps
25	1.2	25	675	4X0.8	26	970	1.200	70	84	76	87
35	1.2	27	800	4X0.8	28	1140	0.868	86	103	92	105
50	1.4	31	1050	4X0.8	33	1450	0.641	105	126	110	125
70	1.4	36	1360	4X0.8	37	1810	0.443	130	156	135	154
95	1.6	41	1760	4X0.8	42	2270	0.320	155	186	165	188
120	1.6	42	2110	4X0.8	45	2580	0.253	180	216	185	211
150	1.8	45	2460	4X0.8	47	3030	0.206	205	246	210	239
185	2.0	50	3080	4X0.8	51	3710	0.164	240	288	235	268
240	2.2	57	3960	4X0.8	58	4615	0.125	280	336	275	314
300	2.4	63	4840	4X0.8	64	5640	0.100	315	378	305	348
400	2.6	70	6050	4X0.8	71	6980	0.0778	375	450	335	382



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650/1100V, 4 Core, Aluminium Conductor, PVC Insulated and Sheathed, Unarmoured (AYY) and Armoured (AYFY & AYWY)

Nominal Area of Cond'tor Sq.mm	Nominal Thickness of PVC ins. mm	Unarmoured		Armoured			Max.D.C. Conductor Resistance at 20°C Ohm/KM	A.C.Current Rating			
		Appx Overall Dia. mm	Appx. wt Kg/km	Nominal Armour Size mm W F	Appx Overall Dia. mm	Appx wt Kg/km		In Air at 40°C		In Ground at 30°C	
								PVC insulation Amps	HRPVC insulation Amps	PVC insulation Amps	HRPVC insulation Amps
4	1.0	16	280	1.4	20	690	7.410	23	28	28	32
6	1.0	17	340	1.4	21	780	4.610	30	36	35	40
10	1.0	19	415	4X0.8	22	720	3.080	40	48	46	52
16	1.0	23	600	4X0.8	26	1010	1.910	51	61	60	68
25	1.2	25	700	4X0.8	26	1000	1.200	70	84	76	87
35	1.2	27	850	4X0.8	28	1200	0.868	86	103	92	105
50	1.4	32	1150	4X0.8	33	1550	0.641	105	126	110	125
70	1.4	36	1475	4X0.8	37	1930	0.443	130	156	135	154
95	1.6	41	1960	4X0.8	42	2460	0.320	155	186	165	188
120	1.6	43	2300	4X0.8	44	2880	0.253	180	216	185	211
150	1.8	48	2800	4X0.8	48	3390	0.206	205	246	210	239
185	2.0	53	3490	4X0.8	54	4120	0.164	240	288	235	268
240	2.2	59	4425	4X0.8	61	5200	0.125	280	336	275	314
300	2.4	66	5500	4X0.8	67	6350	0.100	315	378	305	348
400	2.6	74	6870	4X0.8	75	7870	0.0778	375	450	335	382



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No. of Cores	Nominal Area of Cond'tor Sq.mm	Nominal Thickness of PVC ins. mm	Unarmoured		Armoured			Max.D.C. Conductor Resistance at 20°C Ohm/KM	A.C.Current Rating			
			Appx Overall Dia. mm	Appx. wt Kg/km	Nominal Armour Size mm W F	Appx Overall Dia. mm	Appx wt Kg/km		In Air at 40°C		In Ground at 30°C	
									PVC insulation Amps	HRPVC insulation Amps	PVC insulation Amps	HRPVC insulation Amps
2 Core	4	1	14	250	1.4	18	620	4.61	35	42	41	47
	6	1	15	300	1.4	19	700	3.08	45	54	50	57
	10	1	18	430	1.4	22	900	1.83	60	72	70	80
	16	1	20	600	4X0.8	23	950	1.15	78	94	90	103



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No. of Cores	Nominal Area of Cond'tor Sq.mm	Nominal Thickness of PVC ins. mm	Unarmoured		Armoured			Max.D.C. Conductor Resistance at 20°C Ohm/KM	A.C.Current Rating			
			Appx Overall Dia. mm	Appx. wt Kg/km	Nominal Armour Size mm W F	Appx Overall Dia. mm	Appx wt Kg/km		In Air at 40°C		In Ground at 30°C	
									PVC insulation Amps	HRPVC insulation Amps	PVC insulation Amps	HRPVC insulation Amps
3 Core	4	1	15	300	1.4	18	680	4.61	30	36	36	41
	6	1	16	380	1.4	19	780	3.08	39	47	45	51
	10	1	19	560	1.4	22	1040	1.83	52	62	60	68
	16	1	21	770	4X0.8	24	1150	1.15	66	79	77	88



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No. of Cores	Nominal Area of Cond'tor Sq.mm	Nominal Thickness of PVC ins. mm	Unarmoured		Armoured			Max.D.C. Conductor Resistance at 20°C Ohm/KM	A.C.Current Rating			
			Appx Overall Dia. mm	Appx. wt Kg/km	Nominal Armour Size mm W F	Appx Overall Dia. mm	Appx wt Kg/km		In Air at 40°C		In Ground at 30°C	
									PVC insulation Amps	HRPVC insulation Amps	PVC insulation Amps	HRPVC insulation Amps
4Core	4	1	16	370	1.4	19	790	4.61	30	36	36	41
	6	1	17	470	1.4	21	930	3.08	39	47	45	51
	10	1	20	720	4X0.8	23	1040	1.83	52	62	60	68
	16	1	23	1000	4X0.8	26	1380	1.15	66	79	77	88



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No. of Cores	Nominal Area of Cond'tor Sq.mm	Nominal Thickness of PVC ins. mm	Unarmoured		Armoured			Max.D.C. Conductor Resistance at 20°C Ohm/KM	A.C.Current Rating			
			Appx Overall Dia. mm	Appx. wt Kg/km	Nominal Armour Size mm W F	Appx Overall Dia. mm	Appx wt Kg/km		In Air at 40°C		In Ground at 30°C	
									PVC insulation Amps	HRPVC insulation Amps	PVC insulation Amps	HRPVC insulation Amps
2	1.5	0.8	12	150	1.4	15	440	12.1	20	24	23	26
3	1.5	0.8	12	175	1.4	16	480	12.1	17	20	21	24
4	1.5	0.8	13	200	1.4	16	540	12.1	17	20	21	24
5	1.5	0.8	13	240	1.4	17	600	12.1	17	20	21	24
6	1.5	0.8	14	275	1.4	18	670	12.1	12	14	14	16
7	1.5	0.8	14	286	1.4	18	680	12.1	12	14	14	16
8	1.5	0.8	15	330	1.4	19	750	12.1	12	14	13	15
9	1.5	0.8	16	375	1.4	20	820	12.1	11	13	13	15
10	1.5	0.8	17	390	1.4	21	870	12.1	11	13	12	14
12	1.5	0.8	18	434		4X0.821	750	12.1	10	12	11	13
14	1.5	0.8	19	490		4X0.822	830	12.1	9	11	11	13
16	1.5	0.8	20	540		4X0.823	910	12.1	9	11	10	11
19	1.5	0.8	21	630		4X0.824	980	12.1	8	10	10	11
24	1.5	0.8	24	775		4X0.827	1210	12.1	8	10	9	10
27	1.5	0.8	24	845		4X0.827	1280	12.1	7	8	8	9
30	1.5	0.8	25	920		4X0.828	1350	12.1	7	8	8	9
33	1.5	0.8	26	990		4X0.829	1450	12.1	7	8	8	9
37	1.5	0.8	27	1090		4X0.830	1560	12.1	6	7	7	8
44	1.5	0.8	30	1275		4X0.833	1850	12.1	6	7	7	8
48	1.5	0.8	31	1390		4X0.834	1930	12.1	6	7	7	8
52	1.5	0.8	32	1500		4X0.835	2080	12.1	6	7	7	8
56	1.5	0.8	33	1600		4X0.836	2210	12.1	6	7	7	8
61	1.5	0.8	34	1710		4X0.837	2320	12.1	6	7	7	8
2	2.5	0.9	13	190	1.4	16	500	7.41	27	32	32	36
3	2.5	0.9	13	230	1.4	17	550	7.41	24	29	27	31
4	2.5	0.9	14	275	1.4	18	630	7.41	24	29	27	31
5	2.5	0.9	15	320	1.4	19	700	7.41	24	29	27	31
6	2.5	0.9	16	375	1.4	20	790	7.41	17	20	20	23
7	2.5	0.9	16	390	1.4	20	800	7.41	17	20	20	23
8	2.5	0.9	17	460		4X0.820	830	7.41	16	19	19	22
9	2.5	0.9	18	520		4X0.821	850	7.41	15	18	18	21
10	2.5	0.9	20	540		4X0.823	900	7.41	14	17	17	19
12	2.5	0.9	21	630		4X0.823	970	7.41	14	17	16	18
14	2.5	0.9	22	710		4X0.824	1100	7.41	13	16	15	17
16	2.5	0.9	23	790		4X0.825	1200	7.41	12	14	15	17
19	2.5	0.9	24	895		4X0.827	1300	7.41	11	13	14	16
24	2.5	0.9	28	1110		4X0.830	1600	7.41	10	12	12	14
27	2.5	0.9	28	1210		4X0.831	1720	7.41	10	12	12	14
30	2.5	0.9	29	1325		4X0.832	1850	7.41	9	11	11	13
33	2.5	0.9	30	1440		4X0.833	2000	7.41	9	11	11	13
37	2.5	0.9	32	1620		4X0.835	2200	7.41	9	11	10	11
44	2.5	0.9	36	1900		4X0.838	2550	7.41	8	10	10	11
48	2.5	0.9	36	2040		4X0.839	2700	7.41	8	10	10	11
52	2.5	0.9	37	2190		4X0.840	2850	7.41	8	10	10	11
56	2.5	0.9	38	2335		4X0.841	3050	7.41	8	10	10	11
61	2.5	0.9	39	2500		4X0.842	3200	7.41	8	10	10	11



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Products



**PVC
cables**

650 1100V 3.5 Core Aluminium Conductor PVC Insulated and Sheathed Unarmoured AYY Armoured AYFY AYWY

Product Type	Specifications	
AYY/AYFY/AYWY	View	Cable Construction

650 1100V 4 Core Aluminium Conductor PVC Insulated Sheathed Unarmoured AYY Armoured AYFY AYWY

Product Type	Specifications	
AYY/AYFY/AYWY	View	Cable Construction

650 1100V Copper Conductor PVC Insulated and Sheathed Unarmoured YY and Armoured YWY YFY

Product Type	Specifications	
2 core cables	View	Cable Construction
3 core cables	View	Cable Construction
4 core cables	View	Cable Construction

650 1100V Solid Copper Conductor PVC Insulated and Sheathed Unarmoured AYY Armoured AYFY AYWY

Product Type	Specifications	
control cables	View	Cable Construction

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Products



PILC
cables

The company has been a leading dealer of Paper Insulated Lead Sheathed (PILC) Cables for several years. The company has a special continuous lead press.

Paper Insulated Lead Sheathed Cables (PILC) upto 1 KV are dealsd with Aluminium and Copper Conductors confirming to Indian Standards, International Standards liike BS, VDE, GOST and to Customer Specifications.

Dealing Range:

- Aluminium and Copper Conductors.
- Single Core Cables: Upto 1KV in sizes upto 1000 sqmm.
- Three Core Cables : Upto 1kV in sizes upto 400 sqmm.
- Special Cables for mining and submarine applications.

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Products

Control cables



VOLTAGE :- These cables can be used on AC Voltage up to & including 1100 V or DC up to & including 1500 V.

Size :- 1.5 Sq. mm. & 2.5 Sq. mm. up to 61 Cores in Control Cable.

CONDUCTOR :- Annealed Bare Electrolytic Copper / Aluminum Conductor conforming to IS:8130:1984..

INSULATION :- Conductor is insulated with PVC Compound as per IS:5831:1984.

COLOR OF CORES :- Cores are identified with a color scheme as per IS:1554(Pt-I):1988 as under

2 Cores - Red & Black

3 Cores - Red, Yellow & Blue.

3 ½ & 4 Core - Red, Yellow, Blue & Black. (Reduced Neutral Core in case of 3 ½ Core)

In case of cable exceeding five cores, two adjacent (counting and direction cores) in each layer shall be colored Blue, Yellow and remaining cores gray/Cores can be identified by numbers printed on that of same color .

LAYING OF CORES :-Cores are laid up with a suitable lay. The Final layer direction shall be kept right hand lay.

INNER SHEATH :-The Inner Sheath is applied over laid up of cores by extrusion/wrapping of thermoplastic material.

ARMOURING :- It is applied over inner Sheath. It may consist of galvanized Round Steel wires or galvanized Flat Steel Strips conforming to IS:3975. Round Wire armoring is provided , where the calculated diameter under Armour is 13.0 mm. Above this, armoring is either round wire/steel strip.

OUTER SHEATH :-A final covering of PVC Compound, conforming to IS:5831:84, is applied over Armouring in case of Armoured Cable or over Inner Sheath in case of Unarmoured Cable, called as "Outer Sheath".

The Insulation, Inner Sheath & outer sheath can be HR PVC, FRLS PVC or FRHF Compound depending upon their application.

CURRENT RATING :- e.g. Current Carrying Capacity of these cables are as per IS:3961{Pt-II) : 1967.

QUALITY ASSURANCE :- Quality Standards are built in every Relemac India's product. Relemac India cables are subjected to a series of required tests in our well equipped laboratory . Besides the rigid tests and checks at every stage from raw material through manufacturing stages and finally up to the finished product .

TYPICAL APPLICATION :- The Control Cables are used under ground as well as over head transmission of power in power plants, industries, projects and all other electrical installations.



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Products

Instrumentation cables



CONDUCTOR

Annealed bare/ uniform coated with Tinned/Silver Platted, High Conductivity, and Electrolytic Grade Solid/ Stranded/Flexible Conductor.

DIELECTRIC

Conductor is insulated with General Purpose/HR PVC Compound/Solid/Cellular PE/PP/or any other dielectric material as per customers specification.

COLOUR OF DIELECTRIC :-

Cores are identified with different type of color scheme as per requirement as below:-

- i) As per IS:1554[Pt-I]:88, 694:90.
- ii) As Per IEC, ITD or number Printing.
- iii) As Per Customers Scheme.

PAIR/TRIAD/QUAD :-

Two/Three/Four cores are uniformly twisted together to form a Pair/Triad/Quad with maximum lay length 80 mm/as per requirement of customer. The lay shall be so chosen as to minimize cross talk in the cable.

INDIVIDUAL SHIELDING :-

If required, Individual Shielding may be of Poly Aluminum [Thin Layer of Aluminum Foil bonded to Polyester Film] Tape with Annealed Tinned Copper Drain Wire. It prevents the shorting of adjacent shield and minimizes the cross talk and ground loops. A Tinned Copper drain Wire is installed to provide continuous contact with the shield and allow to connection to ground. Tinning the drain wire reduces galvanic corrosion between drain and shield.

LAYING OF PAIRS/TRIAD/QUAD. :-

Pair/Triad/Quad are laid up with suitable lay. The outer most layers are right hand lay and successive layers are laid up with opposite lay. Then, a Melinex Tape is provided to bind up laid up Pair/Triad/Quad.

OVERALL SHIELDING :-

If required, Overall I Shielding may be of Annealed Tinned Copper Braiding/Poly Aluminum [Thin Layer of Aluminum Foil bonded to Polyester Film] Tape with Annealed Tinned Copper Drain Wire. Braiding ATC Shield has high tensile Strength and provides better coverage in flexing application. They are easier to terminate. This provides effective shielding; cross talk and noise are kept to an absolute minimum.

INNER SHEATH :-

The laid up pair/triad/quad after shielding are provided with an inner sheath, which may be either Extruded Inner Sheath or wrap with PVC Tape.

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Products

Instrumentation cables



ARMOURING :-

It is applied over inner Sheath. It may consist of galvanized Round Steel wires or galvanized Flat Steel Strips.

OUTER SHEATH :-

It is applied over Armouring in case of Armoured Cable or over Inner Sheath in case of Unarmoured Cable. The Color of Sheath is Black or Grey. The Sheath material may be General Purpose/HR/FRLS PVC Compound as per requirement of specification.

RIP CORD :-

To simplify jacket removal, high tensile strength nylon Rip Cord is provided over laid up of pairs/triads/quads below the outer sheath in case of Unarmoured cable or below the Inner Sheath in case of armoured Cable.

QUALITY ASSURANCE :-

Quality Standards are built in every pagoda product. Relemac India cables are subjected to a series of required tests in our well-equipped laboratory. Besides the rigid tests and checks at every stage from raw material through manufacturing stages and finally up to the finished product.

TYPICAL APPLICATION :-

For Connection of Instruments, Process Control Systems, Computers, Data Transmission etc.

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Products

Fire survival cables



Solid/Stranded (ATC/ABC) Copper conductor, insulated with specially formulated PVC/TPE/XLPE to form a core. Cores laid up together or twisted to form a pair/triad depending upon the individual requirement. Such cores/pairs/triads after laying are coated with special Fire Resistant materials and overall sheathed with special PVC/TPE/LSZH.

- Shielding with Braiding/Aluminium mylar taping will be done overall or individually depending upon the requirement.
- Armouring provided depending upon requirement with a extruded inner special PVC/TPE sheath, and overall sheath of special PVC/TPE.

Application :

To maintain circuit integrity during and after Fire

FIRE SURVIVAL TEST

Identification :

Shall be as per cable type Control/Instrumentation Signal/Thermocouple Extn./Compensating as per their respective features list. Other combinations of colour, numerals and alphabet coding will be provided as per customer satisfaction/requirement

Standard Specifications :

ICE 331/ BS 6387, IEC 60331,
BS 6387 - CAT A,B,C,W,Z
BS 7846 - CAT F1, F2, F3

Characteristics :

Will withstand Flame temperature of 750 degree centigrade upto 3 hours without electrical breakdown at rated voltage.
Does not produce noxious smoke & fumes which hinder fire fighting and endanger life.
Does not propagate flame.

Delivery Lengths :

500 - 1000 meters.

Special Properties :

Zero Halogen Low Smoke insulation & sheath material supplied on request

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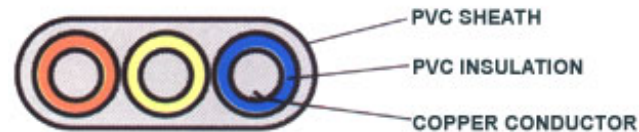
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Products



CABLE DESIGN: Submersible Pump cables is a specialized product to be used for submersible pumps in a deep well. The area of installation is physically restrictive, and the environment is very hostile. **Relemac** is designed and manufactured keeping in mind these factors to achieve the highest possible degree of reliability



CABLE DESIGN: Submersible Pump cables is a specialized product to be used for submersible pumps in a deep well. The area of installation is physically restrictive, and the environment is very hostile. **Relemac** is designed and manufactured keeping in mind these factors to achieve the highest possible degree of reliability

650/1100 VOLTS RELEMAC 3CORE FLAT CABLES FOR SUBMERSIBLE PUMPS

CONDUCTOR		PVC INSULATION		PVC SHEATH			CURRENT Rating at 30°C Amps.	Approx Weight Kg./Km.
Nominal Area in	Nos. & Dia. of wire	Nominal Thickness	Nominal Core Dia.	Nominal Thickness	Approx. Overall Dimensions			
Sq. mm.	Nos. / mm	mm	mm	mm	Thickness mm	Width mm		
1.5	22/0.30	0.8	3.25	1.15	6.0	12.8	16	125
2.5	36/0.30	0.9	3.84	1.15	6.4	14.6	20	175
4.0	56/0.30	1.0	4.65	1.15	7.4	17.2	28	235
6.0	85/0.30	1.0	5.30	1.15	7.9	18.7	34	325
10.0	140/0.30	1.0	6.60	1.40	9.9	23.7	46	525
16.0	226/0.30	1.0	8.20	1.40	11.4	28.0	62	785
25.0	354/0.30	1.2	10.10	2.00	14.7	35.5	79	1270
35.0	495/0.30	1.2	11.50	2.00	16.2	39.5	98	1640
50.0	703/0.30	1.4	13.60	2.20	18.3	45.5	125	2080
70.0	440/0.45	1.4	15.30	2.20	20.0	51.0	156	2830
95.0	475/0.50	1.6	18.00	2.40	23.5	60.0	180	3620

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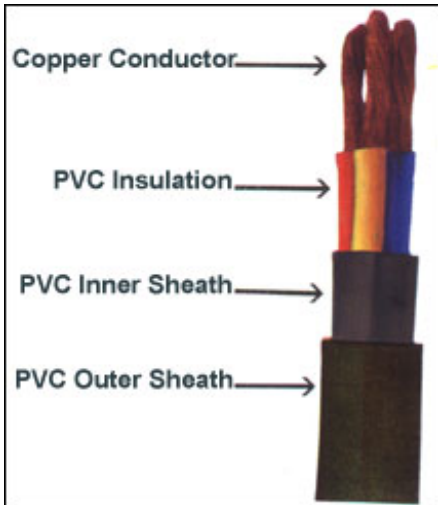
Products



Note :

- The number of wires is approximate and wire diameter is nominal; they shall be such as to satisfy the requirements of conductor resistance as per Class 5 of IEC 60228 / DIN VDE 0295 / IS 8130 / BS 6360
- 4 core and 5 core flat cables are available on request.

RELEMAC DOUBLE SHEATHED ROUND CABLES FOR SUBMERSIBLE PUMPS



650 / 1100 VOLTS

Nos. of cores and core area	Approx. outside diameter	Nos. of cores and core area	Approx. outside diameter
Nos. X mm ²	mm	Nos. X mm ²	mm
3 X 1.5	10.0	4 X 1.5	10.8
3 X 2.5	11.0	4 X 2.5	12.2
3 X 4	13.0	4 X 4	14.1
3 X 6	14.6	4 X 6	16.0
3 X 10	18.0	4 X 10	20.8
3 X 16	21.2	4 X 16	23.4
3 X 25	26.0	4 X 25	28.8
3 X 35	28.3	4 X 35	31.5
3 X 50	33.5	4 X 50	37.3
3 X 70	37.8	4 X 70	42.2
3 X 95	43.5	4 X 95	48.8

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Conductor		Nominal Thickness		Approx. Overall Dia. Of Cable	Approx. Weight of Cable	Approx. Shipping Wt. Of Cable (for Std. Drum Length)	Max.D.C. Resistance at 20 deg.C	Approx. A. C. Resistance at 90 deg C	Approx. Reactance at 50 Hz.	Approx. Capacitance per phase	Continuous Current Rating		Short Circuit Rating for 1 Second
Nominal Area	Min No of Wires	Ins.	O/Sh								In Ground at 20degC	In Air at 30degC	
mm ²	Nos.	mm	mm	mm	Kg/KM	Kgs.	Ohm/KM	Ohm/KM	Ohm/Km	U fd/KM	Amps.	Amps.	KA (rms)
35	6	6.0	2.0	27	670	555	0.8680	1.1100	0.1470	0.1500	123	157	3.29
50	6	6.0	2.0	28	740	590	0.6410	0.8220	0.1400	0.1650	144	183	4.70
70	12	6.0	2.0	30	850	695	0.4430	0.5680	0.1290	0.1850	176	228	6.58
95	15	6.0	2.2	32	1010	775	0.3200	0.4110	0.1240	0.2100	210	278	8.93
120	15	6.0	2.2	33	1120	830	0.2530	0.3250	0.1190	0.2260	238	320	11.30
150	15	6.0	2.2	35	1240	890	0.2060	0.2650	0.1150	0.2400	269	366	14.10
185	30	6.0	2.2	36	1390	1195	0.1640	0.2110	0.1110	0.2610	301	418	17.40
240	30	6.0	2.2	39	1610	1305	0.1250	0.1610	0.1060	0.2870	350	495	22.60
300	30	6.0	2.2	41	1840	1550	0.1000	0.1300	0.1030	0.3130	395	573	28.20
400	53	6.0	2.4	44	2210	1735	0.0778	0.1020	0.1000	0.3480	452	677	37.60
500	53	6.0	2.6	48	2670	1965	0.0605	0.0800	0.0970	0.3880	514	779	47.00
630	53	6.0	2.6	52	3220	2370	0.0469	0.0634	0.0934	0.4400	586	910	59.22
800	53	6.0	2.8	57	4000	3010	0.0367	0.0513	0.0907	0.5030	664	1071	75.20
1000	53	6.0	3.0	61	4710	3545	0.0291	0.0426	0.0884	0.5540	737	1216	94.00



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Conductor		Nominal Thickness		Approx. Overall Dia. Of Cable	Approx. Weight of Cable	Approx. Shipping Wt. Of Cable (for Std. Drum Length)	Max.D.C. Resistance at 20 deg.C	Approx. A. C. Resistance at 90 deg C	Approx. Reactance at 50 Hz.	Approx. Capacitance per phase	Continuous Current Rating		Short Circuit Rating for 1 Second
Nominal Area	Min No of Wires	Ins.	O/Sh								In Ground at 20degC	In Air at 30degC	
mm ²	Nos.	mm	mm	mm	Kg/KM	Kgs.	Ohm/KM	Ohm/KM	Ohm/Km	U fd/KM	Amps.	Amps.	KA (rms)
50	6	8.8	2.2	34	1040	790	0.6410	0.8220	0.1540	0.1290	145	187	4.70
70	12	8.8	2.2	36	1160	1080	0.4430	0.5680	0.1430	0.1430	177	233	6.58
95	15	8.8	2.2	37	1300	1150	0.3200	0.4110	0.1350	0.1610	211	283	8.93
120	15	8.8	2.2	39	1430	1215	0.2530	0.3250	0.1290	0.1710	240	326	11.30
150	15	8.8	2.2	40	1560	1280	0.2060	0.2650	0.1250	0.1820	269	372	14.10
185	30	8.8	2.4	42	1770	1515	0.1640	0.2110	0.1220	0.1960	303	424	17.40
240	30	8.8	2.4	45	2000	1630	0.1250	0.1610	0.1160	0.2140	351	510	22.60
300	30	8.8	2.6	47	2300	1780	0.1000	0.1290	0.1130	0.2320	397	578	28.20
400	53	8.8	2.6	50	2660	2090	0.0778	0.1010	0.1090	0.2570	455	678	37.60
500	53	8.8	2.8	54	3140	2580	0.0605	0.0797	0.1046	0.2840	517	784	47.00
630	53	8.8	2.8	58	3740	2880	0.0469	0.0630	0.1003	0.3190	590	914	59.22
800	53	8.8	3.0	63	4600	3490	0.0367	0.0508	0.0971	0.3630	670	1075	75.20
1000	53	8.8	3.2	67	5300	3840	0.0291	0.0420	0.0943	0.3980	744	1220	94.00



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Conductor		Nominal Thickness of Ins. mm	Nominal Dia. Of Al. Wire Ar. mm	Nominal Dia. Of O/Sh. mm	Approx. Overall Dia. Of Cable mm	Approx. Weight of Cable Kg/Km	Approx. Shipping Wt. Of Cable (for Std. Drum length) Kg	Max.D.C. Resistance at 20 deg. C Ohm/KM	Approx. A.C. Resistance at 90 deg C Ohm/KM	Approx. Reactance at 50Hz. Ohm/KM	Approx. Capacitance per phase U fd/Km	Continuous Current Rating		Short Circuit Rating for 1 Second KA (rms)
Nominal Area Mm2	Min No of Wires Nos.											In Ground at 20degC Amps	In Air at 30degC Amps	
35	6	2.5	1.4	1.24	19	430	345	0.868	1.11	0.1265	0.258	124	140	3.29
50	6	2.5	1.4	1.4	20	490	375	0.641	0.822	0.1194	0.292	146	168	4.7
70	12	2.5	1.6	1.4	22	610	525	0.443	0.568	0.1115	0.337	178	211	6.58
95	15	2.5	1.6	1.4	24	720	580	0.32	0.411	0.1061	0.385	212	260	8.93
120	15	2.5	1.6	1.4	26	830	635	0.253	0.325	0.1012	0.43	241	302	11.3
150	15	2.5	1.6	1.4	27	930	685	0.206	0.265	0.0986	0.465	271	348	14.1
185	30	2.5	1.6	1.4	29	1080	760	0.164	0.211	0.0954	0.514	304	398	17.4
240	30	2.5	1.6	1.56	31	1300	920	0.125	0.161	0.0927	0.574	354	476	22.6
300	30	2.5	1.6	1.56	33	1510	1025	0.1	0.13	0.0895	0.635	400	554	28.2
400	53	2.6	2	1.56	37	1930	1465	0.0778	0.102	0.088	0.695	459	657	37.6
500	53	2.8	2	1.56	41	2350	1675	0.0605	0.08	0.0858	0.733	522	763	47
630	53	3.0	2	1.72	45	2880	1940	0.0469	0.0634	0.0846	0.762	593	896	59.22
800	53	3.3	2	1.88	52	3650	2585	0.0367	0.0513	0.0823	0.824	671	1065	75.2
1000	53	3.5	2.5	2.04	56	4530	3375	0.0291	0.0426	0.0834	0.825	744	1212	94



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Conductor		Nominal Thickness of Ins.	Nominal Dia. Of Al. Wire Ar.	Nominal Dia. Of O/Sh.	Approx. Overall Dia. Of Cable	Approx. Weight of Cable	Approx. Shipping Wt. Of Cable (for Std. Drum length)	Max.D.C. Resistance at 20 deg. C	Approx. A.C. Resistance at 90 deg C	Approx. Reactance at 50Hz.	Approx. Capacitance per phase	Continuous Current Rating		Short Circuit Rating for 1 Second
Nominal Area	Min No of Wires											In Ground at 20degC	In Air at 30degC	
mm ²	Nos.	mm	mm	mm	mm	Kg/Km	Kg	Ohm/KM	Ohm/KM	Ohm/KM	U fd/Km	Amps	Amps	KA (rms)
35	6	2.2	1.6	1.4	23	575	510	0.868	1.11	0.129	0.259	124	143	3.29
50	6	2.8	1.6	1.4	24	640	540	0.641	0.822	0.1293	0.29	146	171	4.7
70	12	2.8	1.6	1.4	25	750	595	0.443	0.568	0.1195	0.33	178	215	6.58
95	15	2.8	1.6	1.4	27	870	655	0.32	0.411	0.113	0.383	212	263	8.93
120	15	2.8	1.6	1.4	29	990	715	0.253	0.325	0.1085	0.415	241	304	11.3
150	15	2.8	1.6	1.56	30	1120	830	0.206	0.265	0.1062	0.447	271	349	14.1
185	30	2.8	2	1.56	32	1270	905	0.164	0.211	0.1025	0.49	304	404	17.4
240	30	2.8	2	1.56	35	1580	1060	0.125	0.161	0.1011	0.544	354	483	22.6
300	30	3	2	1.56	38	1840	1420	0.1	0.13	0.098	0.563	400	559	28.2
400	53	3.3	2	1.72	42	2270	1635	0.0778	0.102	0.0959	0.582	459	661	37.6
500	53	3.5	2	1.72	46	2710	1855	0.0605	0.08	0.0936	0.619	522	768	47
630	53	3.5	2	1.88	50	3320	2270	0.0469	0.0634	0.0919	0.708	593	898	59.22
800	53	3.5	2.5	2.04	56	4290	3155	0.0367	0.0513	0.0895	0.817	671	1060	75.2
1000	53	3.6	2.5	2.2	61	4990	3445	0.0291	0.0426	0.0875	0.88	744	1204	94



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Nominal Area	Min No of Wires											In Ground at 20degC	In Air at 30degC	
mm ²	Nos.	mm	mm	mm	mm	Kg/Km	Kg	Ohm/KM	Ohm/KM	Ohm/KM	U fd/Km	Amps	Amps	KA (rms)
35	6	3.6	1.6	1.4	24	650	545	0.868	1.11	0.134	0.214	124	147	3.29
50	6	3.6	1.6	1.4	26	720	580	0.641	0.822	0.1338	0.238	145	176	4.7
70	12	3.6	1.6	1.4	27	830	635	0.443	0.568	0.1237	0.27	177	220	6.58
95	15	3.6	1.6	1.4	29	950	695	0.32	0.411	0.1168	0.311	212	269	8.93
120	15	3.6	1.6	1.56	31	1090	815	0.253	0.325	0.1128	0.337	241	314	11.3
150	15	3.6	1.6	1.56	32	1210	875	0.206	0.265	0.1096	0.361	270	356	14.1
185	30	3.6	2	1.56	35	1450	995	0.164	0.211	0.1073	0.395	304	410	17.4
240	30	3.6	2	1.56	37	1680	1340	0.125	0.161	0.1041	0.437	353	489	22.6
300	30	3.6	2	1.56	39	1920	1460	0.1	0.13	0.1002	0.48	399	564	28.2
400	53	3.6	2	1.72	43	2320	1660	0.0778	0.102	0.0968	0.539	457	663	37.6
500	53	3.6	2	1.72	46	2720	1860	0.0605	0.08	0.0939	0.604	520	775	47
630	53	3.6	2	1.88	51	3340	2430	0.0469	0.0634	0.0921	0.69	591	902	59.22
800	53	3.6	2.5	2.04	57	4300	3160	0.0367	0.0513	0.0897	0.796	670	1059	75.2
1000	53	3.6	2.5	2.2	61	4990	3450	0.0291	0.0426	0.0875	0.88	742	1202	94



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Nominal Area mm2	Min No of Wires Nos.											In Ground at 20degC Amps	In Air at 30degC Amps	
35	6	5.5	1.6	1.4	28	830	635	0.868	1.11	0.145	0.159	124	151	3.29
50	6	5.5	1.6	1.56	30	930	735	0.641	0.8221	0.1437	0.175	146	181	4.7
70	12	5.5	1.6	1.56	31	1040	790	0.443	0.5682	0.1331	0.196	179	226	6.58
95	15	5.5	1.6	1.56	33	1190	865	0.32	0.4106	0.1256	0.224	213	275	8.93
120	15	5.5	2	1.56	36	1410	1085	0.253	0.3248	0.123	0.241	242	320	11.3
150	15	5.5	2	1.56	37	1530	1265	0.206	0.2647	0.1194	0.257	271	363	14.1
185	30	5.5	2	1.56	39	1700	1350	0.164	0.211	0.1151	0.28	306	417	17.4
240	30	5.5	2	1.72	41	1980	1490	0.125	0.1612	0.1112	0.307	355	495	22.6
300	30	5.5	2	1.72	43	2230	1615	0.1	0.1295	0.1069	0.336	401	569	28.2
400	53	5.5	2	1.88	47	2630	1925	0.0778	0.1015	0.1037	0.375	459	668	37.6
500	53	5.5	2	1.88	50	3070	2145	0.0605	0.0799	0.0996	0.417	523	779	47
630	53	5.5	2.5	2.04	56	890	2955	0.0469	0.0631	0.0984	0.474	595	903	59.22
800	53	5.5	2.5	2.2	61	4780	3340	0.0367	0.051	0.0943	0.543	675	1059	75.2
1000	53	5.5	2.5	2.2	64	5430	3665	0.0291	0.0423	0.0913	0.599	749	1198	94



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Nominal Area	Min No of Wires											In Ground at 20degC	In Air at 30degC	
mm ²	Nos.	mm	mm	mm	mm	Kg/Km	Kg	Ohm/KM	Ohm/KM	Ohm/KM	U fd/Km	Amps	Amps	KA (rms)
35	6	6	1.6	1.4	29	880	660	0.868	1.11	0.147	0.15	123	157	3.29
50	6	6	1.6	1.56	31	980	760	0.641	0.8221	0.1458	0.165	144	183	4.7
70	12	6	1.6	1.56	32	1100	820	0.443	0.5682	0.1351	0.185	176	228	6.58
95	15	6	2	1.56	35	1340	940	0.32	0.4106	0.1298	0.21	210	278	8.93
120	15	6	2	1.56	37	1470	1235	0.253	0.3248	0.1247	0.226	238	320	11.3
150	15	6	2	1.56	38	1590	1295	0.206	0.2647	0.1211	0.24	269	366	14.1
185	30	6	2	1.56	40	1770	1385	0.164	0.211	0.1167	0.261	301	418	17.4
240	30	6	2	1.72	42	2050	1635	0.125	0.1612	0.1127	0.287	350	495	22.6
300	30	6	2	1.72	44	2310	1765	0.1	0.1295	0.1083	0.313	395	573	28.2
400	53	6	2	1.88	48	2710	2115	0.0778	0.1014	0.105	0.348	452	677	37.6
500	53	6	2.5	2.04	53	3370	2695	0.0605	0.0798	0.1025	0.388	514	779	47
630	53	6	2.5	2.04	57	3990	3005	0.0469	0.063	0.0995	0.44	586	910	59.22
800	53	6	2.5	2.2	62	4880	3630	0.0367	0.0501	0.0953	0.503	664	1071	75.2
1000	53	6	2.5	2.36	66	5590	3985	0.0291	0.0422	0.926	0.554	737	1216	94



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Conductor		Nominal Thickness of Ins.	Nominal Dia. Of Al. Wire Ar.	Nominal Dia. Of O/Sh.	Approx. Overall Dia. Of Cable	Approx. Weight of Cable	Approx. Shipping Wt. Of Cable (for Std. Drum length)	Max.D.C. Resistance at 20 deg. C	Approx. A.C. Resistance at 90 deg C	Approx. Reactance at 50Hz.	Approx. Capacitance per phase	Continuous Current Rating		Short Circuit Rating for 1 Second
Nominal Area	Min No of Wires											In Ground at 20degC	In Air at 30degC	
mm ²	Nos.	mm	mm	mm	mm	Kg/Km	Kg	Ohm/KM	Ohm/KM	Ohm/KM	U fd/Km	Amps	Amps	KA (rms)
50	6	8	2	1.56	37	1390	1195	0.641	0.822	0.1592	0.129	145	187	4.7
70	12	8	2	1.56	39	1530	1265	0.443	0.5682	0.1479	0.143	177	233	6.58
95	15	8	2	1.72	41	1730	1475	0.32	0.4106	0.1401	0.161	211	283	8.93
120	15	8	2	1.72	43	1870	1545	0.253	0.3248	0.1347	0.171	240	326	11.3
150	15	8	2	1.72	44	2010	1615	0.206	0.2646	0.1308	0.182	269	372	14.1
185	30	8	2	1.72	46	2210	1735	0.164	0.2109	0.1266	0.196	303	424	17.4
240	30	8	2	1.88	48	2510	2015	0.125	0.1611	0.1221	0.214	351	510	22.6
300	30	8	2.5	2.04	52	2990	2255	0.1	0.1293	0.119	0.232	397	578	28.2
400	53	8	2.5	2.04	55	3400	2710	0.0778	0.1012	0.1138	0.257	455	678	37.6
500	53	8	2.5	2.2	59	3920	2910	0.0605	0.0795	0.1095	0.284	517	784	47
630	53	8	2.5	2.2	63	4580	3480	0.0469	0.0627	0.1061	0.319	590	914	59.22
800	53	8	2.5	2.36	69	5540	3940	0.0367	0.0505	0.1012	0.363	670	1075	75.2
1000	53	8	3.15	2.52	73	6580	4790	0.0291	0.0416	0.0993	0.398	744	1220	94



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Conductor		Nominal Thick-ness of Ins.	Min. thick-ness of I/Sn	Nominal Dimen-sion G.S. Strip armour	Min. Thick-ness of O/Sh.	Appx. Overall Dia. Of Cable	Appx. Weight of Cable	Appx. Shipp-ing Wt. Of Cable (for Std. Drum length)	Max.D.C. Resis-tance at 20 deg. C	Max.D.C. Resis-tance at 90 deg. C	Appx. Reac-tance at 50Hz.	Appx. Capac-ity per phase	Continuous Current Rating		Short Circuit Rating for 1 Second
Nominal Area	Min No of Wires												In Ground at 20degC	In Air at 30 degC	
mm ²	Nos.	mm	mm	MmXmm	mm	mm	Kg/Km	Kg	Ohm/KM	Ohm/KM	Ohm/KM	U _{fd} /Km	Amps	Amps	KA (rms)
50	6	2.2	0.4	4x0.8	1.56	35	1500	1020	0.641	0.822	0.091	0.294	142	163	4.7
70	12	2.2	0.4	4x0.8	1.56	38	1795	1395	0.443	0.568	0.084	0.341	172	197	6.58
95	15	2.2	0.4	4x0.8	1.72	41	2165	1580	0.32	0.411	0.081	0.389	206	241	8.93
120	15	2.2	0.5	4x0.8	1.72	43	2495	1745	0.253	0.325	0.079	0.427	234	278	11.3
150	15	2.2	0.5	4x0.8	1.88	46	2865	1930	0.206	0.265	0.077	0.466	263	319	14.1
185	30	2.2	0.5	4x0.8	2.04	50	3335	2280	0.164	0.211	0.076	0.512	296	363	17.4
240	30	2.2	0.6	4x0.8	2.2	55	4070	2985	0.125	0.162	0.074	0.574	342	430	22.6
300	30	2.2	0.6	4x0.8	2.2	59	4800	3350	0.1	0.13	0.072	0.635	387	498	28.2
400	53	2.2	0.7	4x0.8	2.52	65	5855	3880	0.0778	0.102	0.071	0.704	441	582	37.6
500	53	2.4	0.7	4x0.8	2.68	71	7135	5065	0.0605	0.081	0.0708	0.724	493	669	47



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Conductor		Nominal Thickness of Ins.	Min. thickness of I/Sn	Nominal Dimension G.S. Strip armour	Min. Thickness of O/Sh.	Appx. Overall Dia. Of Cable	Appx. Weight of Cable	Appx. Shipping Wt. Of Cable (for Std. Drum length)	Max.D.C. Resistance at 20 deg. C	Max.D.C. Resistance at 90 deg. C	Appx. Reactance at 50Hz.	Appx. Capacitance per phase	Continuous Current Rating		Short Circuit Rating for 1 Second
Nominal Area	Min No of Wires												In Ground at 20degC	In Air at 30 degC	
mm ²	Nos.	mm	mm	MmXmm	mm	mm	Kg/Km	Kg	Ohm/KM	Ohm/KM	Ohm/KM	U fd/Km	Amps	Amps	KA (rms)
35	6	2.8	0.4	4x0.8	1.72	43	2290	1615	0.868	1.11	0.116	0.259	119	133	3.29
50	6	2.8	0.5	4x0.8	1.72	46	2620	1810	0.641	0.822	0.11	0.29	140	159	4.7
70	12	2.8	0.5	4x0.8	1.88	50	3070	2295	0.443	0.568	0.102	0.33	172	199	6.58
95	15	2.8	0.5	4x0.8	1.88	54	3580	2800	0.32	0.411	0.0971	0.383	205	243	8.93
120	15	2.8	0.6	4x0.8	2.04	58	4130	3075	0.253	0.325	0.0935	0.415	233	279	11.3
150	15	2.8	0.6	4x0.8	2.2	61	4610	3495	0.206	0.265	0.091	0.45	261	319	14.1
185	30	2.8	0.6	4x0.8	2.2	65	5230	3805	0.164	0.211	0.0885	0.493	295	363	17.4
240	30	2.8	0.7	4x0.8	2.36	70	6140	4570	0.125	0.162	0.0865	0.558	341	429	22.6
300	30	3	0.7	4x0.8	2.52	76	7210	5735	0.1	0.13	0.0849	0.571	385	495	28.2
400	53	3.3	0.7	4x0.8	2.84	86	8950	6605	0.0778	0.102	0.0839	0.582	439	577	37.6
500	53	3.5	0.7	4x0.8	3	95	10870	5935	0.0605	0.081	0.0821	0.619	497	663	47



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Conductor		Nominal Thickness of Ins.	Min. thickness of I/Sn	Nominal Dimension G.S. Strip armour	Min. Thickness of O/Sh.	Appx. Overall Dia. Of Cable	Appx. Weight of Cable	Appx. Shipping Wt. Of Cable (for Std. Drum length)	Max.D.C. Resis-tance at 20 deg. C	Max.D.C. Resis-tance at 90 deg. C	Appx. Reac-tance at 50Hz.	Appx. Capac- itance per phase	Continuous Current Rating		Short Circuit Rating for 1 Second
Nominal Area	Min No of Wires												In Ground at 20degC	In Air at 30 degC	
mm ²	Nos.	mm	mm	MmXmm	mm	mm	Kg/Km	Kg	Ohm/KM	Ohm/KM	Ohm/KM	U fd/Km	Amps	Amps	KA (rms)
35	6	3.6	0.5	4x0.8	1.72	47	2630	1925	0.868	1.11	0.134	0.214	119	135	3.29
50	6	3.6	0.5	4x0.8	1.88	50	2980	2250	0.641	0.822	0.117	0.238	140	168	4.7
70	12	3.6	0.5	4x0.8	1.88	53	3430	2725	0.443	0.568	0.108	0.27	172	200	6.58
95	15	3.6	0.6	4x0.8	2.04	58	4060	3040	0.32	0.411	0.102	0.311	205	243	8.93
120	15	3.6	0.6	4x0.8	2.2	62	4590	3485	0.253	0.325	0.0984	0.337	233	279	11.3
150	15	3.6	0.6	4x0.8	2.2	65	5040	3710	0.206	0.265	0.0956	0.364	261	320	14.1
185	30	3.6	0.7	4x0.8	2.36	69	5710	4355	0.164	0.211	0.0928	0.397	294	363	17.4
240	30	3.6	0.7	4x0.8	2.52	74	6680	4840	0.125	0.162	0.0903	0.448	341	429	22.6
300	30	3.6	0.7	4x0.8	2.68	79	7650	5955	0.1	0.13	0.0876	0.487	384	494	28.2
400	53	3.6	0.7	4x0.8	2.84	87	9140	6700	0.0778	0.102	0.085	0.539	439	577	37.6
500	53	3.6	0.7	4x0.8	3	95	10930	5955	0.0605	0.081	0.083	0.604	492	656	47



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Conductor		Nominal Thickness of Ins.	Min. thickness of I/Sn	Nominal Dimension G.S. Strip armour	Min. Thickness of O/Sh.	Appx. Overall Dia. Of Cable	Appx. Weight of Cable	Appx. Shipping Wt. Of Cable (for Std. Drum length)	Max.D.C. Resis-tance at 20 deg. C	Max.D.C. Resis-tance at 90 deg. C	Appx. Reac-tance at 50Hz.	Appx. Capac- itance per phase	Continuous Current Rating		Short Circuit Rating for 1 Second
Nominal Area	Min No of Wires												In Ground at 20degC	In Air at 30 degC	
mm ²	Nos.	mm	mm	MmXmm	mm	mm	Kg/Km	Kg	Ohm/KM	Ohm/KM	Ohm/KM	U fd/Km	Amps	Amps	KA (rms)
35	6	5.5	0.5	4x0.8	2.04	56	3560	2790	0.8680	1.110	0.136	0.159	120	146	3.29
50	6	5.5	0.6	4x0.8	2.20	60	4000	3190	0.6410	0.8220	0.129	0.175	141	174	4.7
70	12	5.5	0.6	4x0.8	2.20	63	4510	3445	0.4430	0.5680	0.119	0.196	172	216	6.58
95	15	5.5	0.6	4x0.8	2.36	68	5130	4065	0.3200	0.4110	0.113	0.224	205	260	8.93
120	15	5.5	0.6	4x0.8	2.36	71	5670	4335	0.2530	0.3250	0.110	0.241	233	282	11.3
150	15	5.5	0.7	4x0.8	2.52	74	6220	4610	0.2060	0.2650	0.106	0.259	261	321	14.1
185	30	5.5	0.7	4x0.8	2.68	78	6970	5615	0.1640	0.2110	0.103	0.281	294	364	17.4
240	30	5.5	0.7	4x0.8	2.84	83	7990	6125	0.1250	0.1620	0.0985	0.314	340	429	22.6
300	30	5.5	0.7	4x0.8	3.00	89	9050	6200	0.1000	0.1300	0.0952	0.340	384	492	28.2
400	53	5.5	0.7	4x0.8	3.00	96	10570	5300	0.0778	0.1020	0.0929	0.375	439	575	37.6
500	53	5.5	0.7	4x0.8	3.00	103	12280	5815	0.0605	0.0810	0.089	0.417	497	661	47



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Conductor		Nominal Thickness of Ins.	Min. thickness of I/Sn	Nominal Dimension G.S. Strip armour	Min. Thickness of O/Sh.	Appx. Overall Dia. Of Cable	Appx. Weight of Cable	Appx. Shipping Wt. Of Cable (for Std. Drum length)	Max.D.C. Resis-tance at 20 deg. C	Max.D.C. Resis-tance at 90 deg. C	Appx. React-ance at 50Hz.	Appx. Capac- itance per phase	Continuous Current Rating		Short Circuit Rating for 1 Second
Nominal Area	Min No of Wires												In Ground at 20degC	In Air at 30 degC	
mm2	Nos.	mm	mm	MmXmm	mm	mm	Kg/Km	Kg	Ohm/KM	Ohm/KM	Ohm/KM	U fd/Km	Amps	Amps	KA (rms)
35	6	6.0	0.6	4x0.8	2.04	59	3840	2870	0.8680	1.110	0.136	0.159	118	145	3.29
50	6	6.0	0.6	4x0.8	2.20	62	4250	3315	0.6410	0.8220	0.130	0.165	139	172	4.7
70	12	6.0	0.6	4x0.8	2.36	66	4800	3590	0.4430	0.5680	0.122	0.185	170	213	6.58
95	15	6.0	0.7	4x0.8	2.36	70	5390	4195	0.3200	0.4110	0.117	0.210	202	246	8.93
120	15	6.0	0.7	4x0.8	2.52	74	6000	4500	0.2530	0.3250	0.112	0.226	229	282	11.3
150	15	6.0	0.7	4x0.8	2.68	77	6560	5410	0.2060	0.2650	0.109	0.242	257	321	14.1
185	30	6.0	0.7	4x0.8	2.68	81	7260	5760	0.1640	0.2110	0.105	0.262	289	365	17.4
240	30	6.0	0.7	4x0.8	2.84	86	8300	6280	0.1250	0.1620	0.100	0.293	335	429	22.6
300	30	6.0	0.7	4x0.8	3.00	91	9470	5445	0.1000	0.1300	0.097	0.317	378	492	28.2
400	53	6.0	0.7	4x0.8	3.00	98	10910	5405	0.0778	0.1020	0.0946	0.348	432	575	37.6
500	53	6.0	0.7	4x0.8	3.00	106	13140	5415	0.0605	0.0810	0.0905	0.388	489	661	47



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Conductor		Nominal Thickness of Ins.	Min. thickness of I/Sn	Nominal Dimension G.S. Strip armour	Min. Thickness of O/Sh.	Appx. Overall Dia. Of Cable	Appx. Weight of Cable	Appx. Shipping Wt. Of Cable (for Std. Drum length)	Max.D.C. Resis-tance at 20 deg. C	Max.D.C. Resis-tance at 90 deg. C	Appx. React-ance at 50Hz.	Appx. Capac-ittance per phase	Continuous Current Rating		Short Circuit Rating for 1 Second
Nominal Area	Min No of Wires												In Ground at 20degC	In Air at 30 degC	
mm ²	Nos.	mm	mm	MmXmm	mm	mm	Kg/Km	Kg	Ohm/KM	Ohm/KM	Ohm/KM	U _{fd} /Km	Amps	Amps	KA (rms)
35	6	6.0	0.6	4x0.8	2.04	59	3840	2870	0.8680	1.110	0.136	0.159	118	145	3.29
50	6	6.0	0.6	4x0.8	2.20	62	4250	3315	0.6410	0.8220	0.130	0.165	139	172	4.7
70	12	6.0	0.6	4x0.8	2.36	66	4800	3590	0.4430	0.5680	0.122	0.185	170	213	6.58
95	15	6.0	0.7	4x0.8	2.36	70	5390	4195	0.3200	0.4110	0.117	0.210	202	246	8.93
120	15	6.0	0.7	4x0.8	2.52	74	6000	4500	0.2530	0.3250	0.112	0.226	229	282	11.3
150	15	6.0	0.7	4x0.8	2.68	77	6560	5410	0.2060	0.2650	0.109	0.242	257	321	14.1
185	30	6.0	0.7	4x0.8	2.68	81	7260	5760	0.1640	0.2110	0.105	0.262	289	365	17.4
240	30	6.0	0.7	4x0.8	2.84	86	8300	6280	0.1250	0.1620	0.100	0.293	335	429	22.6
300	30	6.0	0.7	4x0.8	3.00	91	9470	5445	0.1000	0.1300	0.097	0.317	378	492	28.2
400	53	6.0	0.7	4x0.8	3.00	98	10910	5405	0.0778	0.1020	0.0946	0.348	432	575	37.6
500	53	6.0	0.7	4x0.8	3.00	106	13140	5415	0.0605	0.0810	0.0905	0.388	489	661	47



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Conductor		Nominal Thickness of Ins.	Min. thickness of I/Sn	Nominal Dimension G.S. Strip armour	Min. Thickness of O/Sh.	Appx. Overall Dia. Of Cable	Appx. Weight of Cable	Appx. Shipping Wt. Of Cable (for Std. Drum length)	Max.D.C. Resis-tance at 20 deg. C	Max.D.C. Resis-tance at 90 deg. C	Appx. React-ance at 50Hz.	Appx. Capac-ity per phase	Continuous Current Rating		Short Circuit Rating for 1 Second
Nominal Area	Min No of Wires												In Ground at 20degC	In Air at 30 degC	
mm ²	Nos.	mm	mm	MmXmm	mm	mm	Kg/Km	Kg	Ohm/KM	Ohm/KM	Ohm/KM	U fd/Km	Amps	Amps	KA (rms)
50	6	8.8	0.7	4x0.8	2.52	75	5830	5045	0.6410	0.8220	0.148	0.129	140	174	4.7
70	12	8.8	0.7	4x0.8	2.68	79	6480	5370	0.4430	0.5680	0.137	0.143	170	218	6.58
95	15	8.8	0.7	4x0.8	2.84	83	7200	5730	0.3200	0.4110	0.129	0.161	202	259	8.93
120	15	8.8	0.7	4x0.8	2.84	87	7830	6045	0.2530	0.3250	0.124	0.171	230	297	11.3
150	15	8.8	0.7	4x0.8	3.00	90	8550	5120	0.2060	0.2650	0.120	0.183	257	322	14.1
185	30	8.8	0.7	4x0.8	3.00	94	9300	5385	0.1640	0.2110	0.117	0.197	290	382	17.4
240	30	8.8	0.7	4x0.8	3.00	98	10370	5240	0.1250	0.1620	0.111	0.218	335	448	22.6
300	30	8.8	0.7	4x0.8	3.00	103	11440	5560	0.1000	0.1300	0.107	0.235	378	493	28.2
400	53	8.8	0.7	4x0.8	3.00	110	6030	6030	0.0778	0.1020	0.103	0.257	432	574	37.6



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Nom inal Area	Min No of Wires													In Ground at 20degC	In Air at 30 degC	
mm ²	Nos.	mm	mm	mmXmm	mm	mm	Kg/Km	Mtrs.	Kg	Ohm/ KM	Ohm/ KM	Ohm/ KM	U fd/Km	Amps	Amps	KA (rms)
50	6	2.2	0.4	2	1.56	37	2175	500	1590	0.641	0.822	0.091	0.294	142	163	4.7
70	12	2.2	0.4	2	1.56	40	2545	500	1775	0.443	0.568	0.084	0.341	172	197	6.58
95	15	2.2	0.4	2	1.72	44	2980	500	1990	0.32	0.411	0.081	0.389	206	241	8.93
120	15	2.2	0.5	2	1.88	46	3380	500	2190	0.253	0.325	0.079	0.427	234	278	11.3
150	15	2.2	0.5	2.5	2.04	50	4240	500	2730	0.206	0.265	0.077	0.466	263	319	14.1
185	30	2.2	0.5	2.5	2.04	53	4750	500	3385	0.164	0.211	0.076	0.512	296	363	17.4
240	30	2.2	0.6	2.5	2.2	58	5655	500	3840	0.125	0.162	0.074	0.574	342	430	22.6
300	30	2.2	0.6	2.5	2.36	62	6530	500	4215	0.1	0.13	0.072	0.635	387	498	28.2
400	53	2.2	0.7	3.15	2.68	70	8560	500	5450	0.0778	0.102	0.071	0.704	441	582	37.6
500	53	2.2	0.7	3.15	2.84	77	10170	500	7215	0.0605	0.081	0.708	0.724	493	669	47



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Conductor		Nominal Thick-ness of Ins.	Min. thick-ness of I/Sn	Nominal Dimen-sion G.S. Strip armour	Min. Thick-ness of O/Sh.	Appx. Overall Dia. Of Cable	Appx. Weight of Cable	Std. Drum Length	Appx. Shipp-ing Wt. Of Cable (for Std. Drum length)	Max.D.C. Resis-tance at 20 deg. C	Max.D.C. Resis-tance at 90 deg. C	Appx. Reactance at 50Hz.	Appx. Capac-ity per phase	Continuous Current Rating		Short Circuit Rating for 1 Sec
Nom inal Area	Min No of Wires													In Ground at 20degC	In Air at 30 degC	
mm ²	Nos.	mm	mm	mmXmm	mm	mm	Kg/Km	Mtrs.	Kg	Ohm/ KM	Ohm/ KM	Ohm/ KM	U fd/Km	Amps	Amps	KA (rms)
35	6	2.8	0.4	2	1.72	45	3130	500	2065	0.868	1.11	0.116	0.259	119	133	3.29
50	6	2.8	0.5	2	1.88	48	3560	500	2390	0.641	0.822	0.11	0.29	140	159	4.7
70	12	2.8	0.5	2	1.88	52	4050	500	2785	0.443	0.568	0.102	0.33	172	199	6.58
95	15	2.8	0.5	2.5	2.04	57	5160	500	3590	0.32	0.411	0.0971	0.383	205	243	8.93
120	15	2.8	0.6	2.5	2.2	61	5870	500	3885	0.253	0.325	0.0935	0.415	233	279	11.3
150	15	2.8	0.6	2.5	2.2	64	6380	500	4140	0.206	0.265	0.091	0.45	261	319	14.1
185	30	2.8	0.6	2.5	2.36	68	7150	500	4745	0.164	0.211	0.0885	0.493	295	363	17.4
240	30	2.8	0.7	3.15	2.52	75	9070	500	6665	0.125	0.162	0.0865	0.558	341	429	22.6
300	30	3	0.7	3.15	2.68	81	10370	500	7315	0.1	0.13	0.0849	0.571	385	495	28.2
400	53	3.3	0.7	4	3	92	13850	500	6980	0.0778	0.102	0.0839	0.582	439	577	37.6
500	53	3.5	0.7	4	3	101	16270	500	7010	0.0605	0.081	0.0821	0.691	497	663	47



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Conductor		Nominal Thick-ness of Ins.	Min. thick-ness of I/Sn	Nominal Dimen-sion G.S. Strip armour	Min. Thick-ness of O/Sh.	Appx. Overall Dia. Of Cable	Appx. Weight of Cable	Std. Drum Length	Appx. Shipp-ing Wt. Of Cable (for Std. Drum length)	Max.D.C. Resis-tance at 20 deg. C	Max.D.C. Resis-tance at 90 deg. C	Appx. Reacta-ance at 50Hz.	Appx. Capac-ity per phase	Continuous Current Rating		Short Circuit Rating for 1 Sec
Nom inal Area	Min No of Wires													In Ground at 20degC	In Air at 30 degC	
mm ²	Nos.	mm	mm	mmXmm	mm	mm	Kg/Km	Mtrs.	Kg	Ohm/ KM	Ohm /KM	Ohm/ KM	U fd/Km	Amps	Amps	KA (rms)
35	6	3.6	0.5	2	1.88	49	3630	500	2425	0.868	1.11	0.134	0.214	119	135	3.29
50	6	3.6	0.5	2.5	2.04	53	4470	500	3245	0.641	0.822	0.117	0.238	142	168	4.7
70	12	3.6	0.5	2.5	2.04	57	5020	500	3520	0.443	0.568	0.108	0.27	172	200	6.58
95	15	3.6	0.6	2.5	2.2	62	5780	500	3840	0.32	0.411	0.102	0.311	205	243	8.93
120	15	3.6	0.6	2.5	2.2	65	6380	500	4140	0.253	0.325	0.0984	0.337	233	279	11.3
150	15	3.6	0.6	2.5	2.36	68	6960	500	4650	0.206	0.265	0.0956	0.364	261	320	14.1
185	30	3.6	0.7	3.15	2.52	74	8600	500	5800	0.164	0.211	0.0928	0.397	294	363	17.4
240	30	3.6	0.7	3.15	2.68	79	9740	500	7000	0.125	0.162	0.0903	0.448	341	429	22.6
300	30	3.6	0.7	3.15	2.84	84	10970	500	7615	0.1	0.13	0.0876	0.487	384	494	28.2
400	53	3.6	0.7	4	3	93	14120	350	7070	0.0778	0.102	0.085	0.539	439	577	37.6
500	53	3.6	0.7	4	3	102	16440	300	7065	0.0605	0.081	0.083	0.604	492	656	47



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Conductor		Nominal Thick-ness of Ins.	Min. thick-ness of I/Sn	Nominal Dimen-sion G.S. Strip armour	Min. Thick-ness of O/Sh.	Appx. Overall Dia. Of Cable	Appx. Weight of Cable	Std. Drum Length	Appx. Shipp-ing Wt. Of Cable (for Std. Drum length)	Max.D.C. Resis-tance at 20 deg. C	Max.D.C. Resis-tance at 90 deg. C	Appx. Reacta-nce at 50Hz.	Appx. Capac-ity per phase	Continuous Current Rating		Short Circuit Rating for 1 Sec
Nom inal Area	Min No of Wires													In Ground at 20degC	In Air at 30 degC	
mm ²	Nos.	mm	mm	mmXmm	mm	mm	Kg/Km	Mtrs.	Kg	Ohm/ KM	Ohm/ KM	Ohm/ KM	U fd/Km	Amps	Amps	KA (rms)
35	6	5.5	0.5	2.5	2.2	60	5760	500	3580	0.868	1.11	0.136	0.159	120	143	3.29
50	6	5.5	0.6	2.5	2.2	63	5720	500	3810	0.641	0.822	0.129	0.175	141	174	4.7
70	12	5.5	0.6	2.5	2.36	67	6370	500	4375	0.443	0.568	0.119	0.196	172	216	6.58
95	15	5.5	0.6	3.15	2.52	72	7980	500	5490	0.32	0.411	0.113	0.224	205	260	8.93
120	15	5.5	0.7	3.15	2.52	76	8640	500	6450	0.253	0.325	0.11	0.241	233	282	11.3
150	15	5.5	0.7	3.15	2.68	79	9280	500	6770	0.206	0.265	0.106	0.259	261	321	14.1
185	30	5.5	0.7	3.15	2.84	83	10240	500	7250	0.164	0.211	0.103	0.281	294	364	17.4
240	30	5.5	0.7	3.15	3	88	11440	450	7280	0.125	0.162	0.0985	0.314	340	429	22.6
300	30	5.5	0.7	4	3	95	14030	350	7040	0.1	0.13	0.0952	0.34	384	492	28.2
400	53	5.5	0.7	4	3	102	16070	300	6950	0.0778	0.102	0.0929	0.375	439	575	37.6
500	53	5.5	0.7	4	3	109	18290	250	6700	0.0605	0.081	0.089	0.417	497	661	47



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Conductor		Nominal Thick-ness of Ins.	Min. thick-ness of I/Sn	Nominal Dimen-sion G.S. Strip armour	Min. Thick-ness of O/Sh.	Appx. Overall Dia. Of Cable	Appx. Weight of Cable	Std. Drum Length	Appx. Shipp-ing Wt. Of Cable (for Std. Drum length)	Max.D.C. Resis-tance at 20 deg. C	Max.D.C. Resis-tance at 90 deg. C	Appx. Reactance at 50Hz.	Appx. Capac-ity per phase	Continuous Current Rating		Short Circuit Rating for 1 Sec
Nom inal Area	Min No of Wires													In Ground at 20degC	In Air at 30 degC	
mm ²	Nos.	mm	mm	mmXmm	mm	mm	Kg/Km	Mtrs.	Kg	Ohm/ KM	Ohm/ KM	Ohm/ KM	U fd/Km	Amps	Amps	KA (rms)
35	6	5.5	0.6	2.5	2.2	62	5610	500	3755	0.868	1.11	0.136	0.159	118	145	3.29
50	6	5.5	0.6	2.5	2.2	65	6090	500	3995	0.641	0.822	0.129	0.175	139	172	4.7
70	12	5.5	0.6	2.5	2.36	69	6700	500	4520	0.443	0.568	0.119	0.196	170	213	6.58
95	15	5.5	0.6	3.15	2.52	74	8320	500	5660	0.32	0.411	0.113	0.224	202	246	8.93
120	15	5.5	0.7	3.15	2.52	78	9080	500	6670	0.253	0.325	0.11	0.241	229	282	11.3
150	15	5.5	0.7	3.15	2.68	81	9660	500	6960	0.206	0.265	0.106	0.259	257	321	14.1
185	30	5.5	0.7	3.15	2.84	85	10630	500	7445	0.164	0.211	0.103	0.281	289	365	17.4
240	30	5.5	0.7	3.15	3	92	13190	350	6745	0.125	0.162	0.0985	0.314	335	429	22.6
300	30	5.5	0.7	4	3	97	14610	300	6510	0.1	0.13	0.0952	0.34	378	492	28.2
400	53	5.5	0.7	4	3	104	16590	300	7110	0.0778	0.102	0.0929	0.375	432	575	37.6
500	53	5.5	0.7	4	3	112	19090	300	7880	0.0605	0.081	0.089	0.417	489	661	47



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Nominal Area of Conductor Sq.mm	Unarmoured			Armoured				Max.D.C. Conductor Resistance at 20°C Ohm/KM	A.C.Current Rating								
	Nominal Thickness of PVC ins. mm	Appx Overall Dia. mm	Appx. wt Kg/km	Nominal Thickness of PVC ins. Mm	Nominal Armour Size mm		Appx Overall Dia. mm		Appx wt Kg/km	In Air at 40°C				In Ground at 30°C			
					W	F				PVC insulation Amps		HRPVC insulation Amps		PVC insulation Amps		HRPVC insulation Amps	
2C	3C	2C	3C	2C	3C	2C	3C										
10	1.0	10	110	1.3	1.4	13	220	3.080	56	47	67	56	59	51	67	58	
16	1.0	12	155	1.3	1.4	15	280	1.910	72	64	86	77	75	66	86	75	
25	1.2	13	190	1.5	1.4	16	330	1.200	99	84	119	101	97	86	111	98	
35	1.2	14	230	1.5	1.4	17	380	0.868	120	105	144	126	120	100	137	114	
50	1.4	16	290	1.7	1.4	19	460	0.641	150	130	180	156	145	120	165	137	
70	1.4	17	370	1.7	1.4	20	550	0.443	185	155	222	186	170	140	194	160	
95	1.6	20	480	1.9		4X0.8	22	620	0.320	215	190	258	228	205	175	234	200
120	1.6	21	590	1.9		4X0.8	24	720	0.253	240	220	288	264	230	195	262	222
150	1.8	23	700	2.1		4X0.8	25	850	0.206	270	250	324	300	265	220	302	251
185	2.0	25	850	2.3		4X0.8	27	1010	0.164	305	290	366	348	300	240	342	274
240	2.2	28	1060	2.5		4X0.8	30	1245	0.125	350	335	420	402	335	270	382	308
300	2.4	30	1280	2.7		4X0.8	33	1495	0.100	395	380	474	456	370	295	422	336
400	2.6	34	1640	3.0		4X0.8	37	1860	0.0778	455	435	546	522	410	325	467	371
500	3.0	38	2070	3.4		4X0.8	41	2310	0.0605	490	480	588	576	435	345	496	393
630	3.4	43	2640	3.9		4X0.8	45	2920	0.0469	560	550	672	660	485	390	553	445
800	3.4	49	3295	3.9		4X0.8	52	3710	0.0367	640	630	768	756	530	440	604	502
1000	3.4	51	3945	3.9		4X0.8	54	4375	0.0291	740	720	888	864	580	490	661	559





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Conductor		Nominal Thick-ness of Ins.	Min. thick-ness of I/Sn	Nominal Dimen-sion G.S. Strip armour	Min. Thick-ness of O/Sh.	Appx. Overall Dia. Of Cable	Appx. Weight of Cable	Std. Drum Length	Appx. Shipp-ing Wt. Of Cable (for Std. Drum length)	Max.D.C. Resis-tance at 20 deg. C	Max.D.C. Resis-tance at 90 deg. C	Appx. Reacta-nce at 50Hz.	Appx. Capac-ity per phase	Continuous Current Rating		Short Circuit Rating for 1 Sec
Nom inal Area	Min No of Wires													In Ground at 20degC	In Air at 30 degC	
mm ²	Nos.	mm	mm	mmXmm	mm	mm	Kg/Km	Mtrs.	Kg	Ohm/ KM	Ohm/ KM	Ohm/ KM	U fd/Km	Amps	Amps	KA (rms)
50	6	8.8	0.7	3.15	2.68	80	8960	500	6610	0.641	0.822	0.148	0.129	140	174	4.7
70	12	8.8	0.7	3.15	2.84	83	9740	500	7000	0.443	0.568	0.137	0.143	170	218	6.58
95	15	8.8	0.7	3.15	3	88	10670	450	6930	0.32	0.411	0.129	0.161	202	259	8.93
120	15	8.8	0.7	4	3	93	12800	350	6610	0.253	0.325	0.124	0.171	230	297	11.3
150	15	8.8	0.7	4	3	96	13600	300	6210	0.206	0.265	0.12	0.183	257	322	14.1
185	30	8.8	0.7	4	3	100	14620	300	6520	0.164	0.211	0.117	0.197	290	382	17.4
240	30	8.8	0.7	4	3	105	16020	300	6940	0.125	0.162	0.111	0.218	335	448	22.6
300	30	8.8	0.7	4	3	110	17440	300	7360	0.1	0.13	0.107	0.235	378	493	28.2
400	53	8.8	0.7	4	3	116	19150	300	7875	0.0778	0.102	0.103	0.257	432	574	37.6



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Nominal Area of Cond'tor Sq.mm	Unarmoured			Armoured				Max.D.C. Conductor Resistance at 20°C Ohm/KM	A.C.Current Rating								
	Nominal Thickness of PVC ins. mm	Appx Overall Dia. mm	Appx. wt Kg/km	Nominal Thickness of PVC ins. Mm	Nominal Armour Size mm		Appx Overall Dia. mm		Appx wt Kg/km	In Air at 40°C				In Ground at 30°C			
					W	F				PVC insulation Amps		HRPVC insulation Amps		PVC insulation Amps		HRPVC insulation Amps	
2C	3C	2C	3C	2C	3C	2C	3C	2C	3C	2C	3C						
4	1.0	14	200	1.0	1.4		18	580	7.410	27	32	32	36				
6	1.0	15	240	1.0	1.4		19	660	4.610	35	42	40	46				
10	1.0	17	280	1.0	1.4		21	740	3.080	47	56	55	63				
16	1.0	20	400	1.0		4X0.8	23	770	1.910	59	71	70	80				
25	1.2	20	430	1.2		4X0.8	21	680	1.200	78	94	90	103				
35	1.2	22	50	1.2		4X0.8	23	780	0.868	99	119	110	125				
50	1.4	25	650	1.4		4X0.8	26	960	0.641	125	150	135	154				
70	1.4	28	820	1.4		4X0.8	29	1180	0.443	150	180	160	182				
95	1.6	32	1100	1.6		4X0.8	33	1500	0.320	185	222	190	217				
120	1.6	33	1260	1.6		4X0.8	34	1680	0.253	210	252	210	239				
150	1.8	36	1530	1.8		4X0.8	38	1990	0.206	240	288	240	274				
185	2.0	40	1860	2.0		4X0.8	41	2380	0.164	275	330	275	314				
240	2.2	45	2370	2.2		4X0.8	46	2960	0.125	325	390	320	365				
300	2.4	50	2920	2.4		4X0.8	51	3610	0.100	365	438	355	405				
400	2.6	56	3700	2.6		4X0.8	57	4410	0.0778	420	504	385	439				



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Nominal Area of Conductor Sq.mm	Unarmoured			Armoured				Max.D.C. Conductor Resistance at 20°C Ohm/KM	A.C.Current Rating								
	Nominal Thickness of PVC ins. mm	Appx Overall Dia. mm	Appx. wt Kg/km	Nominal Thickness of PVC ins. Mm	Nominal Armour Size mm		Appx Overall Dia. mm		Appx wt Kg/km	In Air at 40°C				In Ground at 30°C			
					W	F				PVC insulation Amps		HRPVC insulation Amps		PVC insulation Amps		HRPVC insulation Amps	
2C	3C	2C	3C	2C	3C	2C	3C	2C	3C	2C	3C	2C	3C				
10	1.0	10	110	1.3	1.4	13	220	3.080	56	47	67	56	59	51	67	58	
16	1.0	12	155	1.3	1.4	15	280	1.910	72	64	86	77	75	66	86	75	
25	1.2	13	190	1.5	1.4	16	330	1.200	99	84	119	101	97	86	111	98	
35	1.2	14	230	1.5	1.4	17	380	0.868	120	105	144	126	120	100	137	114	
50	1.4	16	290	1.7	1.4	19	460	0.641	150	130	180	156	145	120	165	137	
70	1.4	17	370	1.7	1.4	20	550	0.443	185	155	222	186	170	140	194	160	
95	1.6	20	480	1.9		4X0.8	22	620	0.320	215	190	258	228	205	175	234	200
120	1.6	21	590	1.9		4X0.8	24	720	0.253	240	220	288	264	230	195	262	222
150	1.8	23	700	2.1		4X0.8	25	850	0.206	270	250	324	300	265	220	302	251
185	2.0	25	850	2.3		4X0.8	27	1010	0.164	305	290	366	348	300	240	342	274
240	2.2	28	1060	2.5		4X0.8	30	1245	0.125	350	335	420	402	335	270	382	308
300	2.4	30	1280	2.7		4X0.8	33	1495	0.100	395	380	474	456	370	295	422	336
400	2.6	34	1640	3.0		4X0.8	37	1860	0.0778	455	435	546	522	410	325	467	371
500	3.0	38	2070	3.4		4X0.8	41	2310	0.0605	490	480	588	576	435	345	496	393
630	3.4	43	2640	3.9		4X0.8	45	2920	0.0469	560	550	672	660	485	390	553	445
800	3.4	49	3295	3.9		4X0.8	52	3710	0.0367	640	630	768	756	530	440	604	502
1000	3.4	51	3945	3.9		4X0.8	54	4375	0.0291	740	720	888	864	580	490	661	559



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Conductor		Nominal Thickness		Approx. Overall Dia. Of Cable	Approx. Weight of Cable	Approx. Shipping Wt. Of Cable (for Std. Drum Length)	Max.D.C. Resistance at 20 deg.C	Approx. A. C. Resistance at 90 deg C	Approx. Reactance at 50 Hz.	Approx. Capacitance per phase	Continuous Current Rating		Short Circuit Rating for 1 Second
Nominal Area	Min No of Wires	Ins.	O/Sh								In Ground at 20degC	In Air at 30degC	
mm ²	Nos.	mm	mm	mm	Kg/KM	Kgs.	Ohm/KM	Ohm/KM	Ohm/Km	U fd/KM	Amps.	Amps.	KA (rms)
35	6	2.5	1.24	19	430	345	0.868	1.11	0.1265	0.258	124	140	3.29
50	6	2.5	1.4	20	490	375	0.641	0.822	0.1194	0.292	146	168	4.7
70	12	2.5	1.4	22	610	525	0.443	0.568	0.1115	0.337	179	211	6.58
95	15	2.5	1.4	24	720	580	0.32	0.411	0.1061	0.385	213	260	8.93
120	15	2.5	1.4	26	830	635	0.253	0.325	0.1012	0.43	242	302	11.3
150	15	2.5	1.4	27	930	685	0.206	0.265	0.0986	0.465	272	348	14.1
185	30	2.5	1.4	29	1080	760	0.164	0.211	0.0954	0.514	306	398	17.4
240	30	2.5	1.56	31	1300	920	0.125	0.161	0.0927	0.574	355	476	22.6
300	30	2.5	1.56	33	1510	1025	0.1	0.13	0.0895	0.635	401	554	28.2
400	53	2.6	1.56	37	1930	1465	0.0778	0.102	0.088	0.695	459	657	37.6
500	53	2.8	1.56	41	2350	1675	0.0605	0.08	0.0858	0.733	522	763	47
630	53	3	1.72	45	2880	1940	0.0469	0.0634	0.0846	0.762	593	896	59.22
800	53	3.3	1.88	52	3650	2585	0.0367	0.0513	0.0823	0.824	672	1065	75.2
1000	53	3.5	2.04	56	4530	3275	0.0291	0.0426	0.0834	0.825	744	1212	94



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Conductor		Nominal Thickness		Approx. Overall Dia. Of Cable	Approx. Weight of Cable	Approx. Shipping Wt. Of Cable (for Std. Drum Length)	Max.D.C. Resistance at 20 deg.C	Approx. A. C. Resistance at 90 deg C	Approx. Reactance at 50 Hz.	Approx. Capacitance per phase	Continuous Current Rating		Short Circuit Rating for 1 Second
Nominal Area	Min No of Wires	Ins.	O/Sh								In Ground at 20degC	In Air at 30degC	
mm ²	Nos.	mm	mm	mm	Kg/KM	Kgs.	Ohm/KM	Ohm/KM	Ohm/Km	U fd/KM	Amps.	Amps.	KA (rms)
35	6	2.5	1.24	19	430	345	0.868	1.11	0.1265	0.258	124	140	3.29
50	6	2.5	1.4	20	490	375	0.641	0.822	0.1194	0.292	146	168	4.7
70	12	2.5	1.4	22	610	525	0.443	0.568	0.1115	0.337	179	211	6.58
95	15	2.5	1.4	24	720	580	0.32	0.411	0.1061	0.385	213	260	8.93
120	15	2.5	1.4	26	830	635	0.253	0.325	0.1012	0.43	242	302	11.3
150	15	2.5	1.4	27	930	685	0.206	0.265	0.0986	0.465	272	348	14.1
185	30	2.5	1.4	29	1080	760	0.164	0.211	0.0954	0.514	306	398	17.4
240	30	2.5	1.56	31	1300	920	0.125	0.161	0.0927	0.574	355	476	22.6
300	30	2.5	1.56	33	1510	1025	0.1	0.13	0.0895	0.635	401	554	28.2
400	53	2.6	1.56	37	1930	1465	0.0778	0.102	0.088	0.695	459	657	37.6
500	53	2.8	1.56	41	2350	1675	0.0605	0.08	0.0858	0.733	522	763	47
630	53	3	1.72	45	2880	1940	0.0469	0.0634	0.0846	0.762	593	896	59.22
800	53	3.3	1.88	52	3650	2585	0.0367	0.0513	0.0823	0.824	672	1065	75.2
1000	53	3.5	2.04	56	4530	3275	0.0291	0.0426	0.0834	0.825	744	1212	94



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Conductor		Nominal Thickness		Approx. Overall Dia. Of Cable	Approx. Weight of Cable	Approx. Shipping Wt. Of Cable (for Std. Drum Length)	Max.D.C. Resistance at 20 deg.C	Approx. A. C. Resistance at 90 deg C	Approx. Reactance at 50 Hz.	Approx. Capacitance per phase	Continuous Current Rating		Short Circuit Rating for 1 Second
Nominal Area	Min No of Wires	Ins.	O/Sh								In Ground at 20degC	In Air at 30degC	
mm ²	Nos.	mm	mm	mm	Kg/KM	Kgs.	Ohm/KM	Ohm/KM	Ohm/Km	U fd/KM	Amps.	Amps.	KA (rms)
35	6	3.6	2.0	22	480	460	0.8680	1.1100	0.1340	0.2140	124	147	3.29
50	6	3.6	2.0	23	540	490	0.6410	0.8220	0.1270	0.2380	145	176	4.70
70	12	3.6	2.0	25	640	540	0.4430	0.5680	0.1180	0.2700	177	220	6.58
95	15	3.6	2.0	26	750	595	0.3200	0.4110	0.1110	0.3110	212	269	8.93
120	15	3.6	2.0	28	860	650	0.2530	0.3250	0.1070	0.3370	241	314	11.30
150	15	3.6	2.0	29	960	700	0.2060	0.2650	0.1040	0.3610	270	356	14.10
185	30	3.6	2.2	31	1130	835	0.1640	0.2110	0.1010	0.3950	304	410	17.40
240	30	3.6	2.2	34	1340	940	0.1250	0.1620	0.0976	0.4370	353	489	22.60
300	30	3.6	2.2	36	1550	1150	0.1000	0.1300	0.0944	0.4800	399	564	28.20
400	53	3.6	2.2	39	1870	1435	0.0778	0.1020	0.0913	0.5390	457	663	37.60
500	53	3.6	2.4	43	2280	1640	0.0605	0.0804	0.0894	0.6040	520	775	47.00
630	53	3.6	2.4	47	2810	2035	0.0469	0.0639	0.0867	0.6900	591	902	59.22
800	53	3.6	2.6	52	3530	2525	0.0367	0.0518	0.0847	0.7960	670	1059	75.20
1000	53	3.6	2.8	56	4180	3100	0.0291	0.0432	0.0828	0.8800	742	1202	94.00



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Nominal Area	Min No of Wires	Ins.	O/Sh								In Ground at 20degC	In Air at 30degC	
mm ²	Nos.	mm	mm	mm	Kg/KM	Kgs.	Ohm/KM	Ohm/KM	Ohm/Km	U fd/KM	Amps.	Amps.	KA (rms)
35	6	5.5	2.0	26	630	535	0.8680	1.1100	0.1450	0.1590	124	151	3.29
50	6	5.5	2.0	27	700	570	0.6410	0.8220	0.1380	0.1750	146	181	4.70
70	12	5.5	2.0	29	800	620	0.4430	0.5680	0.1270	0.1960	179	226	6.58
95	15	5.5	2.0	30	930	735	0.3200	0.4110	0.1200	0.2240	213	275	8.93
120	15	5.5	2.2	32	1070	805	0.2530	0.3250	0.1170	0.2410	242	320	11.30
150	15	5.5	2.2	34	1180	860	0.2060	0.2650	0.1130	0.2570	271	363	14.10
185	30	5.5	2.2	35	1340	940	0.1640	0.2110	0.1100	0.2800	306	417	17.40
240	30	5.5	2.2	38	1560	1280	0.1250	0.1610	0.1050	0.3070	355	495	22.60
300	30	5.5	2.2	40	1780	1390	0.1000	0.1300	0.1010	0.3360	401	569	28.20
400	53	5.5	2.4	43	2140	1570	0.0778	0.1020	0.0987	0.3750	459	668	37.60
500	53	5.5	2.4	47	2540	1900	0.0605	0.0801	0.0950	0.4170	523	779	47.00
630	53	5.5	2.6	51	3150	2335	0.0469	0.0635	0.0922	0.4740	595	903	59.22
800	53	5.5	2.8	56	3930	1975	0.0367	0.0514	0.0896	0.5430	675	1059	75.20
1000	53	5.5	2.8	60	4560	3470	0.0291	0.0427	0.0870	0.5990	749	1198	94.00



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