ELECTRICAL PRODUCTS

TELECOM CABLE-INSTRUMENTATION CABLE

Cable Description:

Conductor:

0.5mm² (7/0.30mm); 1.0mm² (14/0.30mm) and 1.5mm² (19/0.30mm) plain annealed copper wire in accordance with SANS 1411, Part 1 class 2

Insulation:

Cross linked polytethylene (XLPE) compound in accordance with SANS 1411, Part 4

Core Identification:

Black and white insulated cores; numbered alpha and numerically, at regular intervals

Individual and / or overall screen:

Overall screen: Aluminium/polyester tape with a 7/0.30mm 0.50mm² sized tinned annealed copper drain wire

Bedding sheath:

Polyvinyl chloride (PVC) compound in accordance with SANS 1411, Part 2 type B1. The standard bedding sheath colour is black

Final sheath and / or armouring:

Single layer of galvanised steel wire armour (SWA) over bedding layer.

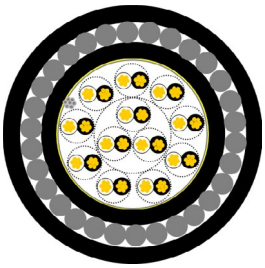
Polyvinyl chloride (PVC) compound in accordance with SANS 1411, Part 2, type S5. The standard outer sheath colour is black

Single & Multi-pairs; 0.5, 1.0, 1.5mm² conductor sizes, XLPE Insulation, overall screened, PVC bedding, Steel wire armour (SWA), PVC outer sheath

General Data:

Typical Applications:

Used For	Transmission of analogue and digital signals in instrumentation and control systems, not allowed for direct connection to low impedance sources, e.g, public mains electricity supply
Recommended For	Indoor and outdoor installations on racks, trays, or conduits, in dry or wet locations; for direct burial



Technical Information and Photographs from CBI electric

Address: 4 Branch Road, Germiston 1401, P.O. Box 678, Germiston 1400

Email: aep.enquiries@actom.co.za Tel: +27 11 878 3050 Website: www.actomep.co.za

ELECTRICAL PRODUCTS

TELECOM CABLE-INSTRUMENTATION CABLE

Product Information:

Electrical Characteristics		0.5mm²	1.0mm²	1.5mm²
Conductor resistance at 20 °C	(max Ω/km)	39.6	19.5	14.4
Insulation resistance at 20 °C	(min GΩ/km)	5	5	5
Core to core capacitance at 20 °C	< 4 pair cable (nom nF/km)	95	115	130
	> 4 pair cable (nom nF/km)	60	75	80
Core to screen capacitance at 20 °C	< 4 pair cable (nom nF/km)	190	230	260
	> 4 pair cable (nom nF/km)	120	150	160
Inductance	(nom mH/km)	0.72	0.64	0.63
Test Voltage (kV DC)	Core to core	1.5	1.5	1.5
	Core to screen	1.0	1.0	1.0
Operating Voltage	(max V)	300	300	300
Physical Characteristics				
Operating Temperature (max)	(°C)	90	90	90
Fire Retardancy		Comply to IEC 60332 Part 3 Category C		
Bending Radius (min)	(mm)	9 x overall cable diameter		

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ELECTRICAL PRODUCTS

TELECOM CABLE-INSTRUMENTATION CABLE

Product Description	Bedding Diameter under APL (mm)	Overall Diameter (mm)	Cable Weight (kg / 1000m)	Standard Drum (Length / m)
1 Pair 0.5mm² XLPE OAM PVC SWA PVC	5.2	9.5	188	1000
2 Pair 0.5mm² XLPE OAM PVC SWA PVC	7.3	11.5	253	1000
4 Pair 0.5mm² XLPE OAM PVC SWA PVC	9.2	13.4	331	1000
8 Pair 0.5mm² XLPE OAM PVC SWA PVC	12.0	16.1	462	1000
12 Pair 0.5mm² XLPE OAM PVC SWA PVC	15.0	20.3	743	1000
16 Pair 0.5mm² XLPE OAM PVC SWA PVC	16.3	21.6	842	1000
24 Pair 0.5mm² XLPE OAM PVC SWA PVC	19.6	25.6	1215	1000
1 Pair 1.0mm² XLPE OAM PVC SWA PVC	6.5	10.7	227	1000
2 Pair 1.0mm² XLPE OAM PVC SWA PVC	8.5	12.7	305	1000
4 Pair 1.0mm² XLPE OAM PVC SWA PVC	11.3	15.5	450	1000
8 Pair 1.0mm² XLPE OAM PVC SWA PVC	14.2	19.5	747	1000
12 Pair 1.0mm² XLPE OAM PVC SWA PVC	18.0	23.3	982	1000
16 Pair 1.0mm² XLPE OAM PVC SWA PVC	20.0	25.6	1287	1000
24 Pair 1.0mm² XLPE OAM PVC SWA PVC	24.1	31.3	1927	1000
1 Pair 1.5mm² XLPE OAM PVC SWA PVC	7.0	12.7	327	1000
2 Pair 1.5mm² XLPE OAM PVC SWA PVC	9.3	13.5	344	1000
4 Pair 1.5mm² XLPE OAM PVC SWA PVC	12.4	16.6	500	1000
8 Pair 1.5mm² XLPE OAM PVC SWA PVC	16.0	21.3	873	1000
12 Pair 1.5mm² XLPE OAM PVC SWA PVC	19.8	25.8	1296	1000
16 Pair 1.5mm² XLPE OAM PVC SWA PVC	22.4	28.8	1572	1000
24 Pair 1.5mm² XLPE OAM PVC SWA PVC	27.1	34.3	2266	1000

CBI electric telecom cables

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ELECTRICAL PRODUCTS

Complete your Project:

Please select the items you require and we will be in touch

Cables and Wires:

- ☐ Indoor
- ☐ Outdoor
- ☐ General
- ☐ Other
- ☐ Let an ACTOM Specialist Contact you

Lighting:

- ☐ Indoor
- ☐ Outdoor
- ☐ General
- ☐ Other
- ☐ Let an ACTOM Specialist Contact you

Transformers (Distribution):

- ☐ Indoor
- ☐ Outdoor
- ☐ General
- ☐ Other
- ☐ Let an ACTOM Specialist Contact you

Accessories:

- ☐ Indoor
- ☐ Outdoor
- ☐ General
- ☐ Other
- ☐ Let an ACTOM Specialist Contact you

Specific Information:

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ELECTRICAL PRODUCTS

For more Information on this Product

Please Send us the Folowing

Product Information:

Product Name:

Quantity:

Project Name:

Date the Product is required:

Your Contact Information:

Name and Surname:

Company:

Email:

Phone Number:

Province:

Thank You

For having a Look at this Product

Please send this PDF back to us with all your Information

Scan the QR Code to visit our Website:

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