



SPECIAL CABLES PVT. LTD.

PRODUCT CATALOGUE

MICA INSULATED FIRE SURVIVAL INSTRUMENTATION CABLES

Application: These cables find wide application in the cables are designed to continue operations at high temperatures like 650°C, 750°C and 950°C as per requirements of the application and conditions of operation.

Types and Sizes: Typically in pair / triad formation (upto 50 Pairs, Triads) from 0.50 sq.mm to 2.50 sq.mm with screening

Conductor: Copper – Stranded (Circular) – Bare or Tinned (Annealed)

Heat Barrier Tape: Glass Mica suitable for upto 950 deg C. is wrapped over conductor

Insulation: XLPE (Cross Linked Polyethylene), Zero Halogen or EPR Rubber

Screening: Individual & Overall or Overall screening (as applicable) - Polyester Tape, Aluminium Mylar Tape with Copper Drain Wire, Copper Tape or Tinned Copper Braiding

Inner Sheath: PVC - FR / FRLS / Low Smoke Halogen Free or Rubber – FR / HOFR

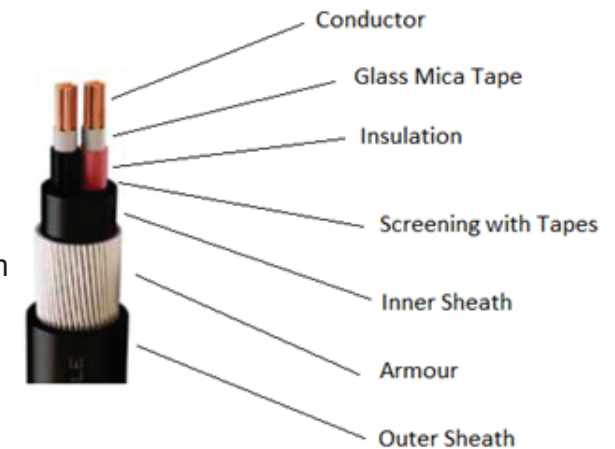
Armour: Galvanized Steel Round Wire / Flat Strip / Tape or GI / Tinned Copper Braiding

Outer Sheath: PVC - FR / FRLS / Low Smoke Halogen Free or Rubber – FR / HOFR

Specification: Generally confirming to IS: 7098 (Pt-1), BS EN: 50288, BS 6387, IEC: 60332.

Key Features:

1. Cables can be customised to meet customer requirements as per various national & international standards
2. Specially designed cables to withstand up to 950°C as per requirements



Technical Data

500 Volts Grade, XLPE insulated, overall screened, unarmoured / armoured instrumentation cables conforming to EN:50288-7		
Overall screened		
2.5 Sq.mm		
No. of pair / triad	15 Pair	15 Triad
Cable Type	Armoured	Armoured
Conductor Diameter (mm)	1.8	1.8
Insulation thickness (min.) (mm)	0.53	0.53
Thickness of inner sheath / bedding (Nom.) (mm)	1.6	1.7
Size of armour wire (Nom.) (For information only) (mm)	1.6	1.6
Thickness of outer sheath (Nom.) (For information only) (mm)	2.0	2.1
Overall diameter (For information only) (mm)	36.8	40.7

GENERAL ELECTRICAL CHARACTERSTICS		
Particular	Units	2.5 SQ.MM.
Maximum D.C. Resistance of Bare copper conductor at 20°C	Ω/km	7.41
Maximum D.C. Resistance of conductor on completed cable at 20°C	Ω/km	9.48
Min. Insulation resistance (XLPE Insulated cables)	GΩ/km	1

Note:

- Technical Data provided is for stranded (Class 2) conductor is for reference only
- Other details can be provided on request

Corporate Office : B-II/12, Mohan Cooperative Industrial Estate, Badarpur, New Delhi-110 044

Tel : +91-11-29891011, 29893640 ★ E-mail : sales@specialcables.co.in

Manufacturing Unit: Plot No. 60-65, Sector-3, SIDCUL – IIE Pantnagar, Rudrapur- 263153, Distt.: U.S.Nagar, Uttarakhand, India

Tel : +91-594-4250781 ★ E-mail : worksrdr@specialcables.co.in ★ Website : www.specialcables.co.in