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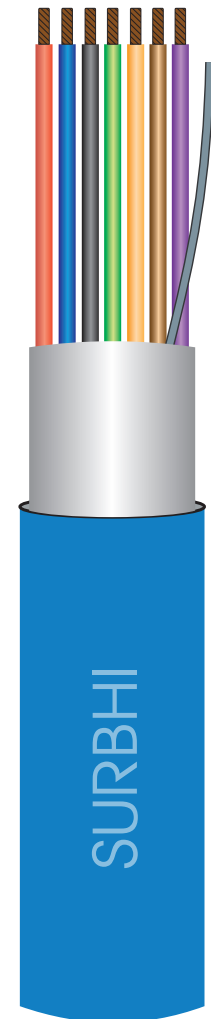
MULTICORES / PAIRS OVERALL SCREENED INSTRUMENT UNARMOURED FLEXIBLE CABLE BS 5308 PART 2 : 300/500/1100V

DESCRIPTION

Multicore / Pair Copper Conductor,
PVC Insulated, Overall and PVC sheathed.
Voltage Rated at 300 / 500 / 650 V

CONSTRUCTION

- 1. Conductor:**
Annealed Plain /Tinned Circular Stranded Copper Conductor, Conform to BS 6360 / IS:8130
- 2. Insulation:**
PVC (Polyvinyl Chloride) / PE
- 3. Pairing:**
Two Insulated Cores shall be uniformly twisted together to form a Pair
12 to 18 Twist per meter.
- 4. Multi Core Identification:**
Colour Code as per BS standards. Multi Colours up to 24 Cores or Grey Colour with numbering. Cores shall be Uniformly Twisted together & laid up with maximum lay length of 100 mm
- 5. Pair Identification:**
Colour Code as per BS-5308 Part 1 or as per customer specification
Note : Two Pair Cables with overall screen shall have four cores laid in Quad Formation.
- 6. Cabling:**
Cores/Pairs laid up together, if necessary filled with Dummy Cores & Taped with Non Hygroscopic Polyester Tape.
- 7. Overall Screening:**
Accumulated Pairs Screened with Aluminium Mylar Tape, in electrical contact with Annealed Tinned Copper Drain Wire of 0.5 mm².
- 8. Outer Sheathing:**
PVC (Polyvinyl Chloride). ST-2 FR/FRLS-H/ZHLS



Mfg. by: **SURBHI Telelink Pvt. Ltd.**

Village Rampur, Ghat, Paonta Sahib, Dist. Sirmour (H.P.)

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MULTICORES / PAIRS OVERALL SCREENED INSTRUMENT ARMoured CABLE BS 5308 PART 2 : 300/500/1100V

DESCRIPTION

Multicores / Pairs Cables with Copper Conductor, PVC Insulated, overall Screened and PVC Bedding, Steel Wire / Strip / Braided Armoured and PVC Sheathed.

Voltage rated at 300/500/1100V

CONSTRUCTION

- 1. Conductor:**
Annealed Plain /Tinned Circular Stranded Copper Conductor, Conform to BS 6360 / IS:8130
- 2. Insulation:**
PVC (Polyvinyl Chloride) / PE
- 3. Pairing:**
Two Insulated Cores shall be uniformly twisted together to form a Pair 12 to 18 Twist per meter.
- 4. Multi Core identification:**
Colour Code as per BS standards. Multi Colours up to 24 Cores or Grey Colour with numbering, Cores shall be uniformly twisted together & laid up with maximum lay length of 100 mm
- 5. Cabling:**
Cores laid up together, if necessary filled with Dummy Cores & Taped with Non Hygroscopic Polyester Tape.
- 6. Overall Screening/Pairs:**
Accumulated Cores Screened with Aluminium Mylar Tape, in Electrical contact with Annealed Tinned Copper Drain Wire of 0.5 mm².
- 7. Inner Sheathing:**
PVC (Polyvinyl Chloride). ST-1/ST-2
- 8. Armouring:**
Galvanised Steel Round Wire/Strip/SS-MS Braided over the inner sheath.
- 9. Outer Sheathing:**
PVC (Polyvinyl Chloride). ST-2 FR/FRLS-H/ZHLS



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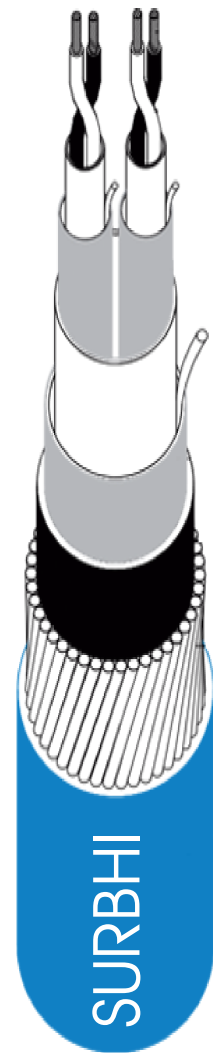
INDIVIDUAL & OVERALL PAIR SCREENED INSTRUMENT ARMoured CABLE BS 5308 PART 2 : 300/500/1100V

DESCRIPTION

Multi-Pair Copper Conductor, PVC Insulated, Individual & Overall Screened, PVC Bedding, GI Round Wire/Strip / M/S Braided Armoured and PVC Sheathed.
Voltage Rated at 300/500/1100V

CONSTRUCTION

- 1. Conductor:**
Annealed Bare / Tinned Circular Bunched Copper Conductor Class-2/Class 5 Confirm to BS 6360 / IS:8130
- 2. Insulation:**
PVC (Polyvinyl Chloride) / PE / XLPE
- 3. Pairing:**
Two Insulated Cores shall be Uniformly Twisted together to form a pair, 12 to 18 Twist per meter & Laid UP
- 4. Pair identification:**
Colour Code - Blue & White with number print or as per customer specification
- 5. Individual Screening:**
Each Pair Screened with Aluminium Mylar Tape, in electrical contact with a Annealed Tinned Copper Drain Wire of 0.5 mm².
- 6. Cabling:**
Twisted Pairs are laid up together, if necessary filled with non-hygroscopic material compatible with the insulation
- 7. Overall Screening:**
Accumulated Pairs Screened with Aluminium Mylar Tape, in electrical contact with a Annealed Tinned Copper Drain Wire of 0.5 mm².
- 8. Inner Sheathed**
PVC (Polyvinyl Chloride). ST-1, ST-2
- 9. Armouring:**
Galvanised Steel Round Wire / Strip / MS Wire Braided over the bedding.
- 10. Outer Sheathing:**
PVC (Polyvinyl Chloride). ST-2, FR-FRLS-ZHLS



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Perfect Product is the everlasting goal of SURBHI Instrument Cable Constructional Specifications:

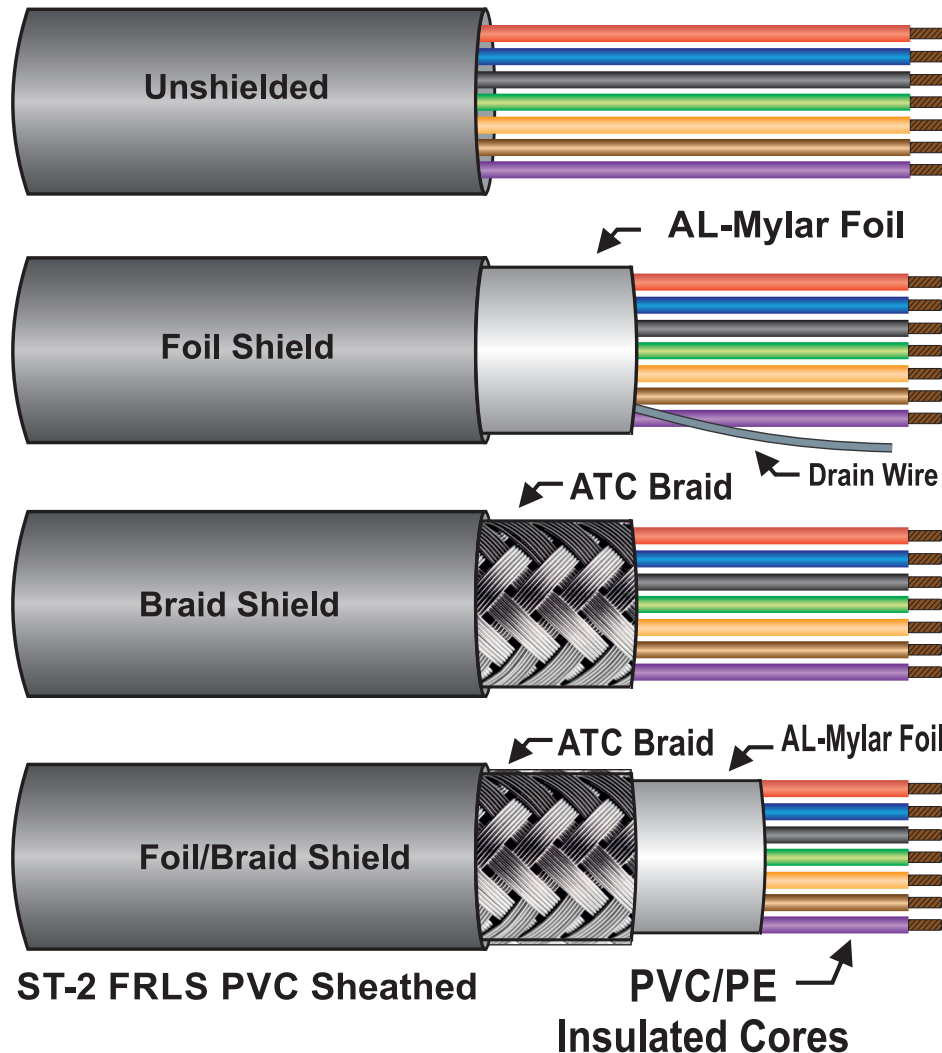
S.No.	Part	Size (Sq mm)	
1.	Conductor Type Copper (ABC/ATC) As Per IS 8130/IEC 60228	0.50 Sqmm	Conductors as per IS Specification Class 2 / Class 5
		0.75 Sqmm	
		1.00 Sqmm	
		1.50 Sqmm	
		2.50 Sqmm	
2.	Insulation Type	PVC - Type-A - 70°C	Standard Insulation Thickness: 0.60mm Colour code as per BS 5308/IS-1554-I or as per customer requirements.
		PVC - Type-C (HR) - 85°C	
		PVC - Type-C (HR) - 105°C	
		PE/LDPE -	
		XLPE - Cross Link Polyethylene	
3.	Thickness of Insulation	0.50 Sqmm	Nominal - 0.60 mm
		0.75 Sqmm	Nominal - 0.60 mm
		1.00 Sqmm	Nominal - 0.60 mm
		1.50 Sqmm	Nominal - 0.60 mm
		2.50 Sqmm	Nominal - 0.70 mm
4.	Core/Pair Identification	Core Identification	1 to 4 Core Color Coded
			Above 5 or More => Grey With Number Print
			Core Laid up together
		Pair Identification	Blue & White With Number Print
			Pair Twist - 12 to 18 Twist per Mtrs
		Traid Identification	1 Blue & 2 White With Number Print
	Traid Twist - 10 to 15 Twist per Mtrs		
5.	Individual Pair Screened & Overall Screened	Each Pair Taped with Non-Hygroscopic Polyester Tape Screened with Aluminium Mylar Tape with 100% Coverage, in electrical contact with Annealed Tinned Copper Drain Wire of 0.5 mm ² . All Pairs Laid Up & Over all Polyester-Taped and Screened with Aluminium Mylar Tape with ATC Drain Wire of 0.5 mm ² .	
6.	Overall Screen Cores / Pairs	All Cores/Pairs uniformly twisted together and laidup Overall Taped with Non-Hygroscopic Polyester Tape, and Screened with Aluminium Mylar Tape with 100% Coverage, in electrical contact with Annealed Tinned Copper Drain Wire of 0.5 mm ² .	
7.	Inner Sheath	PVC - Type-ST-1 - 70°C	With Suitable Wall Thickness - 0.50 to 1.00 mm
		PVC - Type-ST-2 - FR 85°C	
		PVC - Type-ST-2 - FRLS 85°C	
		Sheath Color - Black	
8.	Armour	1) Wire Armouring	0.90 mm to 1.60 mm Galvanised Round Wire (GI)
		2) Strip Armouring	4.0 x 0.80 mm Galvanised Flat Strip (GI)
		3) Flexible Braid Armouring	MS/SS Mash Flexible Braid Armour as per Customer Req.
9.	Outer Sheath	PVC - Type-ST-1 - 70°C	Wall Thickness as per BS : 5308-Part - 1 & 2, IS:1554 - Part -1
		PVC - Type-ST-2 - FR 85°C	
		PVC - Type-ST-2 - FRLS 85°C	
		ZHLS	
		Sheath Colour - As per customer requirement	

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Instrumentation Shielded Cables

Understanding Shielded Cable

- Shielding is needed to combat the effects of EMI (Electro Magnetic Interference)
- An Unshielded cable for industrial applications typically is used in a controlled environment.
- There are Three types of Shielding Typically used for cables: **FOIL, BRAID and FOIL+BRAID**
- It provides 100% coverage of the Cores/Pairs it surrounds, the Drain Wire is used to terminate and ground the shield.
- A Braid Shield is a woven mesh of a Bare or Tinned Copper Wires, the Braid provides a low-resistance path to ground and is much easier to termination by crimping or soldering when attaching a connector. But Braided Shields do not provide 100% coverage, Braids typically provided between 70% and 95% coverage. Because Copper has higher conductivity than Aluminium and the Braid has more bulk for conducting noise, the shielding is more effective with Foil+Braid. **But it adds size and cost to the cable.**

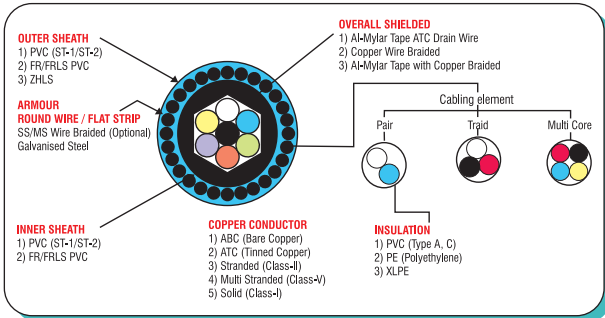


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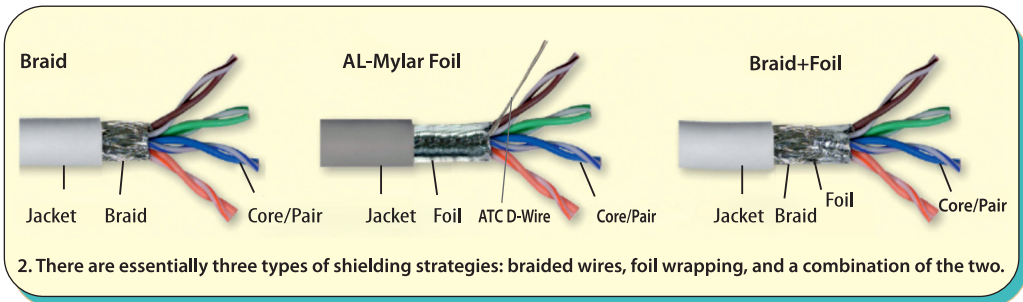
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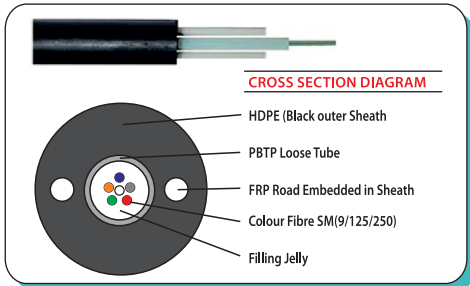
Customer Satisfaction is the Ultimate Goal of Surbhi



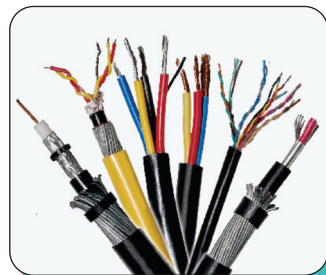
Instrumentation Armoured Cables



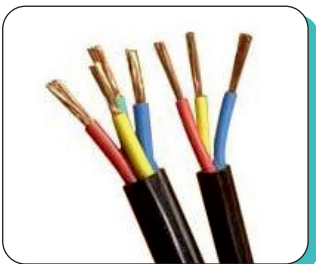
Shielded Cables



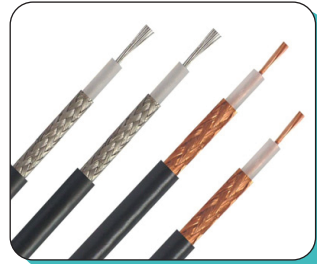
Fibre Optic Cable



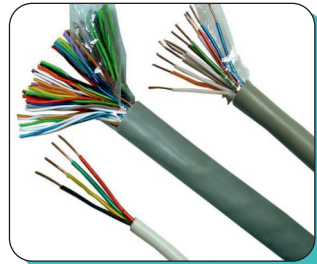
Industrial Cables



Flexible Cables



Co-axial Cables



Telephone Cables

PRODUCT RANGE

- Instrumentation Screened Armoured & Unarmoured Cables
- LT XLPE Control Armoured & Unarmoured Cables
- Single Core & Multicore Industrial Flexible Cables-As per IS 694
- RS 485 - Profi Bus - Modbus Cable Armoured & Unarmoured
- BMS / HVAC Access Control Cables
- Fire Alarm / FS Cables Armoured & Unarmoured
- Networking Cat 6E/UTP Armoured Cables
- Professional Audio & Video Cables & Speaker Cables.
- Telecom Cables (2 Pair to 100 Pair)
- CCTV Cable Amoured & Unarmoured Cables
- Compensating & Thermocouple Extension (K-Type/J-Type/R-Type) (PVC/PTFE/Fiber/Asbestos)
- Teflon Heat Resistance Cables - Single & Multi Core
- TV Co-axial Cable - RG 59/RG-6/RG-11 Armoured & Unarmoured Cables
- Fibre Optic Amoured & Unarmoured Cables

Customized Cables are our speciality

Mfg. by: **SURBHI Telelink Pvt. Ltd.**

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