

## Instrumentation Cable

Single & Multi Pair, Collective Screen, LSZH Sheathed  
Fire Resistant, Flame Retardant Types

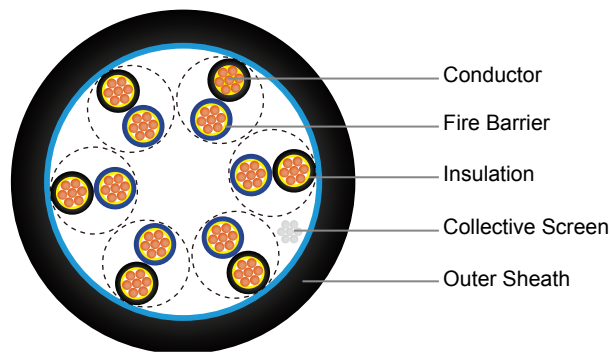
**EN50288-7**

500 V

### Application

Suitable for connecting instruments and control systems for analogue or digital signal transmission. Recommended for indoor and outdoor installation, on racks, trays, in conduits, in dry and wet locations

### Construction



- Conductor: Solid, stranded or flexible plain or metal coated copper in accordance with class 1, 2 or 5 of HD383 in the range of 0.5mm<sup>2</sup> to 2.5mm<sup>2</sup>.
- Fire Barrier: Mica tape.
- Insulation: XLPE to EN 50290. Suitable alternative materials are under consideration.
- Pair Identification: Black & Blue color with number on the cores for multi pairs, start with 1 in the centre.
- Wrapping: At least 1 layer of plastic tape.
- Collective Screen: Aluminum foil tape over a tinned copper drain wire.
- Outer Sheath: Halogen free flame retardant compound LSZH, to EN 50290-2-27.

### Electrical data at 20°C

	Character	Unit	Values			
			0.5	0.75	1.0	1.5
Conductor size	nom.	mm <sup>2</sup>	0.5	0.75	1.0	1.5
Conductor resistance	max.	Ω/km	36.7	25.0	18.5	12.3
Insulation resistance	min.	MΩ x km	5000			
L/R (ratio)	max.	μH/Ω	25			40
Inductance	max.	mH/km	1			
Mutual capacitance	max.	nF/m	65			75
Test voltage		V	2000			
Operating voltage U <sub>0</sub> / U	max.	V	500			