

## Instrumentation Cable

Multi Pairs, Individual&Collective Screen, Steel Wire Armoured, LSZH Sheathed  
Halogen-free, Flame Retardant Types

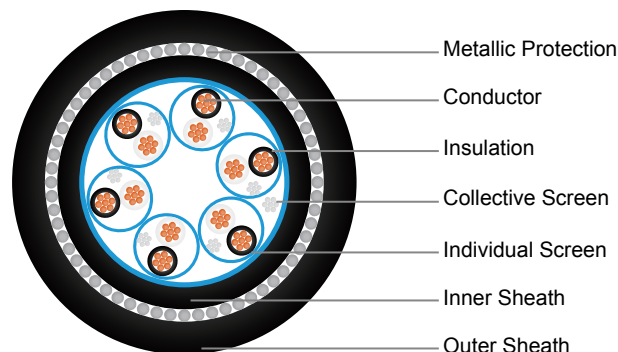
**EN50288-7**

300 V

### Application

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

### 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 1.5mm<sup>2</sup>.
- Insulation:** PE or XLPE to EN 50290. Suitable alternative materials are under consideration.
- Pair Identification:** Black&White color with number on the cores for multi pairs, start with 1 in the centre.
- Individual Screen:** Aluminium foil tape over a tinned copper drain wire.
- Wrapping:** At least 1 layer of plastic tape.
- Collective Screen:** Aluminium foil tape over a tinned copper drain wire.
- Inner Sheath:** Halogen free flame retardant compound LSZH, to EN 50290-2-27.
- Metallic Protection:** Round galvanised steel wires armour.
- 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	115			115
Capacitance unbalance	max.	pF/500 m	500			
Test voltage		V	1500			
Operating voltage U <sub>0</sub> / U	max.	V	300			