

Instrumentation Cable

Single & Multi Pair, Collective Screen, Steel Wire Armoured, PVC Sheathed

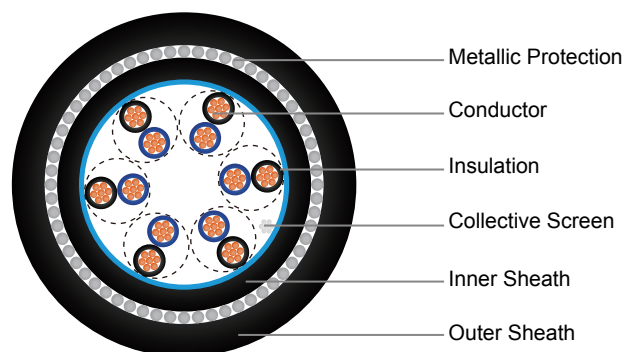
EN50288-7

500 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 0.5mm² to 2.5mm².
- Insulation: PE, PVC or 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: Aluminium foil tape over a tinned copper drain wire.
- Inner Sheath: Polyvinyl chloride PVC, to EN 50290-2-22.
- Metallic Protection: Round galvanised steel wires armour.
- Outer Sheath: Polyvinyl chloride PVC, to EN 50290-2-22.

Electrical data at 20°C

	Character	Unit	Values			
			0.5	0.75	1.0	1.5
Conductor size	nom.	mm ²	0.5	0.75	1.0	1.5
Conductor resistance	max.	Ω/km	36.7	25.0	18.5	12.3
Insulation resistance						
PVC Insulation	min.	MΩ x km	100			
PE/XLPE Insulation	min.	MΩ x km	5000			
L/R (ratio)	max.	μH/Ω	25			40
Inductance	max.	mH/km	1			
Mutual capacitance						
PVC Insulation	max.	nF/m	120			130
PE/XLPE Insulation	max.	nF/m	65			75
Capacitance unbalance	max.	pF/500 m	500			
Test voltage		V	2000			
Operating voltage U ₀ / U	max.	V	500			