

Instrumentation Cable

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

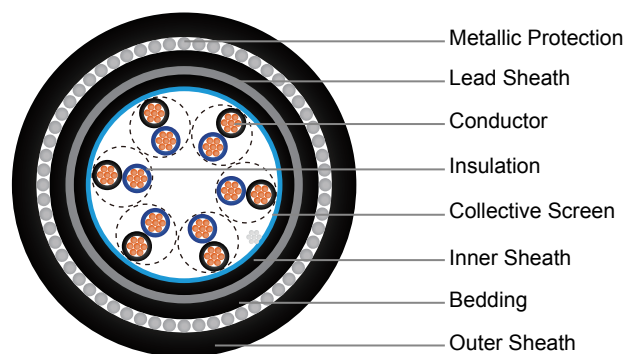
EN50288-7

500 V

Application

Suitable for connecting instruments and control systems for analogue or digital signal transmission. Recommended for direct burial, especially in presence of oil and aggressive chemical substances

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: 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.
- Lead Sheath: Lead sheath comply with EN 50307.
- Bedding: 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			
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
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			