

## Instrumentation Cable

Multi Pairs, Individual&Collective Screen, Lead Sheath, Steel Wire Armoured, PVC Sheathed

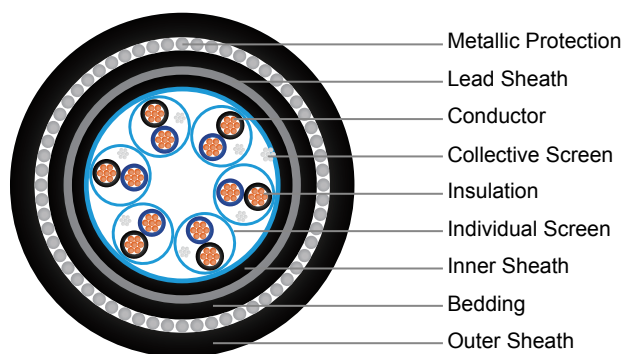
**EN50288-7**

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 0.5mm<sup>2</sup> to 2.5mm<sup>2</sup>.
- 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.
- 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:** 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			
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						
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	160			170
XLPE Insulation	max.	nF/m	100			100
Capacitance unbalance	max.	pF/500 m	500			
Test voltage		V	2000			
Operating voltage U <sub>0</sub> / U	max.	V	500			