

## Instrumentation Control Cable

Multi Cores, Collective Screen, PVC Sheathed

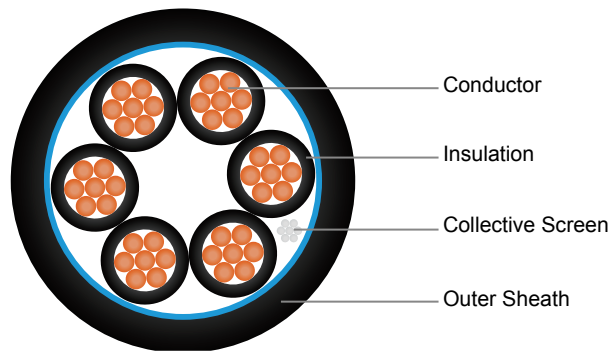
**EN50288-7**

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>.
- Insulation: PE, PVC or XLPE to EN 50290. Suitable alternative materials are under consideration.
- Core Identification: Black color with number on the cores for multi cores, 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.
- 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	2.5
Conductor size	nom.	mm <sup>2</sup>	0.5	0.75	1.0	1.5	2.5
Conductor resistance	max.	Ω/km	36.0	24.5	18.1	12.1	7.41
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	60
Inductance	max.	mH/km			1		
Mutual capacitance							
PVC Insulation	max.	nF/m			170		
PE/XLPE Insulation	max.	nF/m			115		
Test voltage		V			2000		
Operating voltage U <sub>0</sub> / U	max.	V			500		