

Instrumentation Control Cable

Multi Cores, Collective Screen, Lead Sheath, Steel Wire Armoured, PVC Sheathed

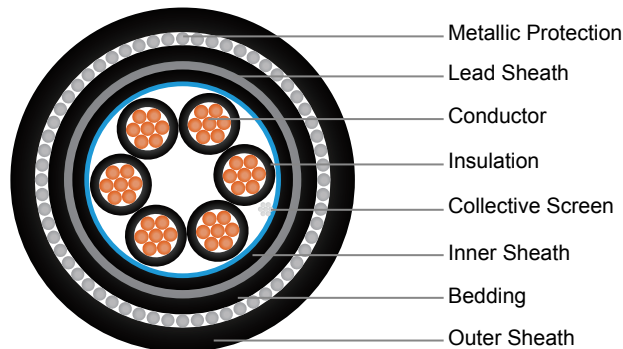
EN50288-7

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.
- 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.
- 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	2.5
Conductor size	nom.	mm ²	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 ₀ / U	max.	V	500				