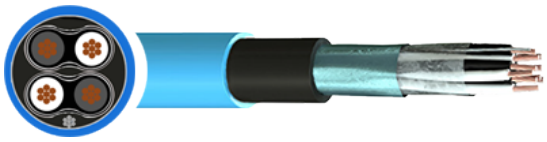
BS EN50288-7 Comms & Control Cable PVC ICAT



Description

BS EN 50288-7:2005 Multi-element metallic cables which are used in analogue and digital communication and control systems. The cables have a mechanically robust construction and electrical transmission handling properties. These cables are designed to connect electrical instrument circuits and provide communication services in and around process plants and are not to be used for power supply.

Key Features

Voltage Rating
300/300 Volts

Minimum Bending Radius
Fixed: 6 x overall diameter

Flame Retardancy
BS EN/IEC 60332-1-2
BS EN/IEC 60332-3-24

Temperature Limits
Fixed: -40°C to +80°C

Core Colours

Pairs - White Black (Numbered)

Triple - White Black Red

Sheath - Blue or Black

Standards

- BS EN 50288-1
- BS EN 50288-7
- BS EN/IEC 60332-1-2
- BS EN/IEC 60228
- BS EN/IEC 60332-3-24

Construction

- **Conductor**: Under 1mm^2 Class 5 flexible copper conductor
  1mm^2 & above Class 2 stranded copper conductor
- **Insulation**: Cross-Linked Polyethylene (XLPE) Laid up to form pairs
- **Screen**: Collective Aluminium/mylar tape with 0.5mm drain wire
- **Outer Sheath**: Polyvinyl Chloride (PVC)
- **Sheath Colour**: Blue or Black

QA Lab

Cleveland Cable Test & Training Lab
Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.

CPR
Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.

Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.

ecovadis
Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

BS EN50288-7 Comms & Control Cable PVC ICAT - Dimensions

Reference	Conductor Size (mm2)	Overall Diameter(mm)	Weight(Kg/Km)
RE2X9156	0.5	20.1	1153
RE2X9155	0.5	17.1	753
RE2X9154	0.5	15.1	531
RE2X9153	0.5	13.1	408
RE2X9152	0.5	9.4	253
RE2X9175	0.5	7.8	111
RE2X9151	0.5	7.3	161
RE2X9162	0.75	23.2	1445
RE2X9161	0.75	19.7	920
RE2X9160	0.75	17.4	728
RE2X9159	0.75	15	489
RE2X9158	0.75	10.7	299
RE2X9176	0.75	8.8	146
RE2X9157	0.75	8.3	184
RE2X9168	1	22.6	1624
RE2X9167	1	19.1	1162
RE2X9166	1	17	562
RE2X9165	1	14.7	425
RE2X9164	1	10.4	262
RE2X9177	1	8.73	132
RE2X9163	1	8.1	195
RE2X9174	1.5	30.3	1860
RE2X9173	1.5	25.6	1337
RE2X9172	1.5	23.6	957
RE2X9171	1.5	19.5	714
RE2X9170	1.5	13.7	408
RE2X9178	1.5	11.2	195
RE2X9169	1.5	10.5	242

BS EN 50288-7 COMMS & CONTROL CABLE– ELECTRICAL CHARACTERISTICS

CONDUCTOR SIZE	CONDUCTOR CLASS	MUTUAL CAPACITANCE pF/m			MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C	MAXIMUM L/R RATIO
		Cables with Collective Screen Only	1 Pair, 2 Pairs, 1 Triple Collectively Screened	Cables with Individually Screened Pairs		
(MM2)					Ω/Km	µH/ohms
0.5	5	75	115	115	39	25
0.75	5	75	115	115	26	25
1	2	75	115	115	18.1	25
2	2	85	120	120	12.1	40
3	**2**	**85**	120	120	7. 41	65