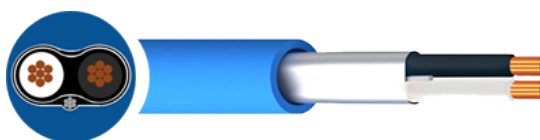


BS EN50288-7 - RE-2X(st)Y PiMF Comms & Control Cable LSZH CAT



Description

EN 50288-7 cables are available in a number of variants according to their specific applications, with configurations including collectively screened multi-core or multi-pair, collectively and individually screened pairs in metal foil (PiMF). They are also available as collectively screened – collective aluminium mylar tape (CAT) or individually and collectively screened (ICAT).

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.

The Cable is designed for internal installation in tray, basket and ladder, and in conduits and ducts. Externally the cable must be protected if buried

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
- IEC/EN 60754-1/2
- BS EN/IEC 60228
- BS EN/IEC 60332-3-24
- BS EN/IEC 61034

Construction

- **Conductor:** Under 1mm² Class 5 flexible copper conductor 1mm² & above Class 2 stranded copper conductor
- **Insulation:** Cross-Linked Polyethylene (XLPE) Laid up to form pairs
- **Overall Tape Screen:** Aluminium/Polyester Tape (AL/PET) with 0.5mm drain wire
- **Outer Sheath:** Low Smoke Zero Halogen (LSZH)
- **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

ecovadis

BS EN50288-7 - RE-2X(st)Y PiMF Comms & Control Cable LSZH CAT - Dimensions

| Reference | Conductor Size (mm2) | No Of Cores | No Of Pairs | Overall Diameter(mm) | Weight(Kg/Km) |
|-----------|----------------------|-------------|-------------|----------------------|---------------|
| RE2X9200 | 0.5 | 2 | 1 | 4.6 | 60 |
| RE2X9224 | 0.5 | 3 | 1 Triple | 4.8 | 69 |
| RE2X9201 | 0.5 | 4 | 2 | 6.7 | 75 |
| RE2X9202 | 0.5 | 10 | 5 | 8.6 | 190 |
| RE2X9203 | 0.5 | 20 | 10 | 11.9 | 305 |
| RE2X9204 | 0.5 | 30 | 15 | 13.8 | 410 |
| RE2X9205 | 0.5 | 40 | 20 | 15.5 | 518 |
| RE2X9206 | 0.75 | 2 | 1 | 4.6 | 69 |
| RE2X9225 | 0.75 | 3 | 1 Triple | 5.4 | 83 |
| RE2X9207 | 0.75 | 4 | 2 | 7.6 | 99 |
| RE2X9208 | 0.75 | 10 | 5 | 9.8 | 242 |
| RE2X9209 | 0.75 | 20 | 10 | 13.7 | 380 |
| RE2X9210 | 0.75 | 30 | 15 | 15.9 | 445 |
| RE2X9211 | 0.75 | 40 | 20 | 17.9 | 684 |
| RE2X9212 | 1 | 2 | 2 | 5 | 130 |
| RE2X9226 | 1 | 3 | 1 Triple | 5.3 | 142 |
| RE2X9213 | 1 | 4 | 2 | 7.5 | 155 |
| RE2X9214 | 1 | 10 | 5 | 9.5 | 292 |
| RE2X9216 | 1 | 15 | 15 | 15.5 | 790 |
| RE2X9215 | 1 | 20 | 10 | 13.4 | 405 |
| RE2X9217 | 1 | 40 | 20 | 17.4 | 865 |
| RE2X9218 | 1.5 | 2 | 1 | 6.4 | 90 |
| RE2X9227 | 1.5 | 3 | 1 Triple | 6.7 | 115 |
| RE2X9219 | 1.5 | 4 | 2 | 9.7 | 150 |
| RE2X9220 | 1.5 | 10 | 5 | 12.6 | 350 |
| RE2X9221 | 1.5 | 20 | 10 | 17.9 | 575 |
| RE2X9222 | 1.5 | 30 | 15 | 20.8 | 820 |
| RE2X9223 | 1.5 | 40 | 20 | 23.5 | 1080 |



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

| CONDUCTOR SIZE (MM ²) | CONDUCTOR CLASS | MUTUAL CAPACITANCE pF/m | | | MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C Ω/Km | MAXIMUM L/R RATIO μH/ohms |
|---|--------------------|--|---|---|--|-------------------------------------|
| | | Cables with Collective Screen Only | 1 Pair, 2 Pairs, 1 Triple Collectively Screened | Cables with Individually Screened Pairs | | |
| 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 |

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.