Defence Standard 61-12 Part 5 LSZH

Description

These defence Standard cables were initially manufactured for military uses to Defence Standard 61/12 Part 4 and 5. However, they are now more commonly used for high-density industrial applications such as aircraft, process control systems, computers, and data processors. These flexible multi-core cables are specifically engineered for high-density wiring between components and within instruments and electronic equipment, with a voltage rating of 440 Volts.

The construction features flexible Class 5 tinned annealed copper conductors with a 16/0.2mm stranding configuration for Part 5 cables. The cable utilizes Low Smoke Zero Halogen (LSZH) insulation, a non-hygroscopic binder tape, and a tinned copper wire braid (TCWB) screen or armour to protect against electrical interference. It is manufactured generally to Ministry of Defence Standard DEF61-12 LSF Part 5, meeting flame propagation standard BS4066 PT1 and IEC 332 PT1, ensuring minimal smoke density and zero corrosive gas emission in the event of a fire.

These cables are designed to withstand contamination from fuel and mineral-based fluids, making them ideal for challenging industrial environments. For installation, the cable has a wide operational temperature range of -55°C to +70°C, or -20°C to +70°C depending on specific low-temperature thresholds, The cable is fairly flexible with a minimum bending radius of 10 times the overall diameter. They are highly suited for fixed installations in high-density environments where space is limited and maximum fire safety compliance is necessary.

Key Features

Voltage Rating
440 volts RMS, suitable for frequencies up to 1.6kHz

Minimum Bending Radius
7.5 x overall diameter

Standards

- BS EN/IEC 61034-2
- BS EN/IEC 60754-1/2
- UL1581

Construction

- **Conductor**: Class 5 tinned copper
- **Insulation**: Low Smoke Zero Halogen (LSZH)
- **Separator**: Polyester Tape (PET)
- **Drain Wire**: Tinned Copper
- **Screen**: Aluminium Foil
- **Separator**: Polyester Tape (PET)
- **Ripcord**: Nylon
- **Outer Sheath**: Low Smoke Zero Halogen (LSZH)
- **Sheath Colour**: Black

Training & Testing Lab

AN ISO/IEC 17025 ACCREDITED FACILITY

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.

ISO/IEC 17025 Accredited Testing Laboratory
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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

Defence Standard 61-12 Part 5 LSZH - Dimensions

Reference	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)
DEFSTANLSZHP5S2	2	4.80	45
DEFSTANLSZHP5B2	2	6.50	65
DEFSTANLSZHP5U2	2	5.40	35
DEFSTANLSZHP5B3	3	6.70	75
DEFSTANLSZHP5U3	3	5.70	45
DEFSTANLSZHP5S4	4	6.00	60
DEFSTANLSZHP5B4	4	7.30	90
DEFSTANLSZHP5U4	4	6.50	75
DEFSTANLSZHP5S6	6	7.10	85
DEFSTANLSZHP5B6	6	8.10	110
DEFSTANLSZHP5U6	6	7.20	125
DEFSTANLSZHP5S8	8	8.10	110
DEFSTANLSZHP5B8	8	8.90	135
DEFSTANLSZHP5U8	8	9.50	175
DEFSTANLSZHP5U10	10	11.00	250
DEFSTANLSZHP5S12	12	9.80	135
DEFSTANLSZHP5B12	12	10.50	180
DEFSTANLSZHP5U12	12	13.30	345
DEFSTANLSZHP5S18	18	12.50	200
DEFSTANLSZHP5B18	18	12.50	255
DEFSTANLSZHP5U18	18	14.90	470
DEFSTANLSZHP5B25	25	14.00	325
DEFSTANLSZHP5U25	25	17.60	550
DEFSTANLSZHP5B5PR	5 Pair	11.20	175

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