



LU Section 12 Fire Integrity Cables

Applications

The cables are designed for installation typically in public help points (PHP), public address (PA), station announcement platforms (SAP) & CCTV camera power systems. The LSZH cables has been designed to provide superior flame retardance and circuit integrity, together with optimized ease of installation characteristics and complies with LU Section 12 station regulations.



Standards

- BS 7629-1/ 5839-1: 2002/ 8434-1: 2003/6387 C W Z
- BS EN 50200 (PH90)
- UNE 211025

Construction

- Conductors: Class 1 solid or Class 2 stranded annealed bare copper conductors to BS EN 60228: 2005 (previously BS 6360).

- Insulation: Silicone rubber insulation.
- Core Wrapping: Plastic tape(s) with overlapping.

- Screen: Aluminium/Polyester tape.
- Drain Wire: Tinned copper.
- Sheath: High performance, thermoplastic LSZH.



Electrical Characteristics at 20°C

Nominal Conductor Cross Section	mm ²	1.0	1.5	2.5
Maximum Conductor DC Resistance	Ω/km	18.1	12.1	7.41
Nominal Insulation Thickness	mm	0.6	0.7	0.8
Voltage Rating	KV	0.3/0.5		

Mechanical and Thermal Properties

- Minimum Bending Radius: 6×OD
- Temperature Range: -40°C to +90°C (during operation); -10°C to +70°C (during installation)

Dimensions and Weight

Cable Code	No. of cores & Nominal Conductor Cross Sectional Area No. × mm ²	Conductor Diameter		Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
		Stranded Conductor No/mm	Solid Conductor mm			
RFLU12-SOZ1-U-PH90(AS+)-300/500V-2G1	2×1.0	7/0.44	1.13	1.3	7.0	83
RFLU12-SOZ1-U-PH90(AS+)-300/500V-3G1	3×1.0	7/0.44	1.13	1.3	7.3	95
RFLU12-SOZ1-U-PH90(AS+)-300/500V-4G1	4×1.0	7/0.44	1.13	1.3	8.2	115
RFLU12-SOZ1-U-PH90(AS+)-300/500V-7G1	7×1.0	7/0.44	1.13	1.3	10.5	175
RFLU12-SOZ1-U-PH90(AS+)-300/500V-2G1.5	2×1.5	7/0.53	1.38	1.4	7.9	110
RFLU12-SOZ1-U-PH90(AS+)-300/500V-3G1.5	3×1.5	7/0.53	1.38	1.4	8.3	128
RFLU12-SOZ1-U-PH90(AS+)-300/500V-4G1.5	4×1.5	7/0.53	1.38	1.4	9.5	160
RFLU12-SOZ1-U-PH90(AS+)-300/500V-7G1.5	7×1.5	7/0.53	1.38	1.4	12.2	250
RFLU12-SOZ1-U-PH90(AS+)-300/500V-2G2.5	2×2.5	7/0.67	1.78	1.5	9.3	160
RFLU12-SOZ1-U-PH90(AS+)-300/500V-3G2.5	3×2.5	7/0.67	1.78	1.5	9.9	190
RFLU12-SOZ1-U-PH90(AS+)-300/500V-4G2.5	4×2.5	7/0.67	1.78	1.5	11.3	235

U is changed to K if the stranding class is changed from class 2 to class 5



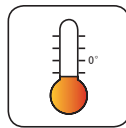
Impact Resistant



Highly Flexible



Oil Resistant



Weather Resistant



Laid In Ducts



Insulation Integrity FE180
EN 50200/IEC 60331
/NF C32-070-2.3(CR1)

