

# **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.



- Drain Wire: Tinned copper.
- Sheath: High performance, thermoplastic LSZH.



#### ■ Electrical Characteristics at 20°C

Nominal Conductor Cross Section	mm²	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

	No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	Conductor Diameter		Nominal	Nominal	
Cable Code		Stranded Conductor No/mm	Solid Conductor mm	Sheath Thickness mm	Overall Diameter mm	Nominal Weight kg/km
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

Laid In Ducts Weather Resistant

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

