

Red Series Plasma Grade Ecoflex LSZH miniature video multicore

This range features Low Smoke Zero Halogen (LSZH) jacketed versions of the 2 and 5 way Red Series Miniature Video multicore. Mechanically and electrically identical, the use of LSZH materials makes them suitable for installations in public buildings and other situations where LSZH is specified.

Applications

- Multicore video signal transmissions SVHS (YC), YUV, RGBS and RGBHV (VGA) in an installation environment
- Installation in public buildings, schools and colleges, government premises and marine vessels

Application notes

- 30 metre recommended maximum length for analogue video
- Longer run lengths achievable using appropriate distribution amplifiers (DAs)
- Multicores are industry standard colour coded
- All cables use RG179 type connectors and small BNC boots
- Jacket material specified as the thermoplastic polymer SHF-1; compliant with IEC 60092 Electrical Installations in ships pt. 359 - Sheathing materials for shipboard power and communication cables
- Fully tested and compliant with the following IEC standards (see glossary for full description)
- IEC 60332.1 Fire resistance of a single cable
- IEC 60754.1 Amount of Halogen Gas Emissions
- IEC 60754.2 Degree of acidity of released gases
- IEC 60134.2 Measurement of smoke density
- Ultra pure oxygen free copper for outstanding sonic integrity

Mechanical Specificati	ons - Individual Cores		
Conductor	Material	Tinned oxygen free copper	
	Stranding	7x 0.12mm (0.08mm²) AWG 30/7	
Dielectric	Material	Foam skin Polyethylene	
	Average thickness	0.60 mm	
	Diameter	1.60mm ±0.05	
Screen	Material	Tinned oxygen free braided copper wire	
	Coverage	95%	
	Dimension	16x5x0.10mm	
Overall Jacket	Material	SHF-1 LSZH thermoplastic polymer	
	Average thickness	0.30 mm	
	Overall diameter	2.60 ±0.10 mm	

LSZH ecoflex red series

Conductor	Material	Tinned oxygen free copper	
	Stranding	7x 0.20mm (0.22mm ²) AWG 24/7	
Dielectric	Material	SHF-1 LSZH thermoplastic polymer	
	Average thickness	0.26mm	
	Diameter	1.10mm	
Colour	Orange		
Mechanical Specifications	- Multicores		
	2-way	5-way	
Stock Code	278-302-020	278-305-020	
Coax Colours	White, Yellow	Red, Green, Blue, Black, White	
Material	SHF-1 LSZH polymer Ruby Red RAL 3003		
Thickness (ave)	0.90 mm	1.00 mm	
Overall diameter	7.30 mm	9.60 mm	
Bend radius	15 x overall diameter		
Weight	94 Kg/Km	119 Kg/Km	
Physical properties unaged	d		
Jacket (@ 60°C)	Tensile strength	9N/mm ²	
	Elongation	> 125%	
	Heat Shock Test	150°C x 1 hour / No cracks	
Electrical Specifications			
Resistance	Conductor	225 Ohm/Km	
	Shield	32 Ohm/Km	
	Insulation	> 5000 M Ohm/Km	
Voltage test	1000V DC 1 minute OK		
Capacitance	56.5 pF/m		
Velocity of propagation	78%		
Impedance at 10MHz	75 Ohms ±2		
Attenuation	5 MHz	4.91 dB/100m	
	10 MHz	6.99 dB/100m	
	50 MHz	15.77 dB/100m	
	100 MHz	22.74 dB/100m	
	105 MU		
	135 MHz	26.64 dB/100m	

