

34 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 retardancy of a single cable
- IEC 60754.1 Amount of Halogen Gas Emissions
- IEC 60754.2 Degree of acidity of released gases
- IEC 61034.2 Measurement of smoke density

LSZH ecoflex red series

Mechanical Specifications - Individual Cores

Conductor	Material	Tinned oxygen free copper
	Stranding	7x 0.12mm (0.08mm ²) 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

Mechanical Specifications - Tracer wire (5 way only)

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	

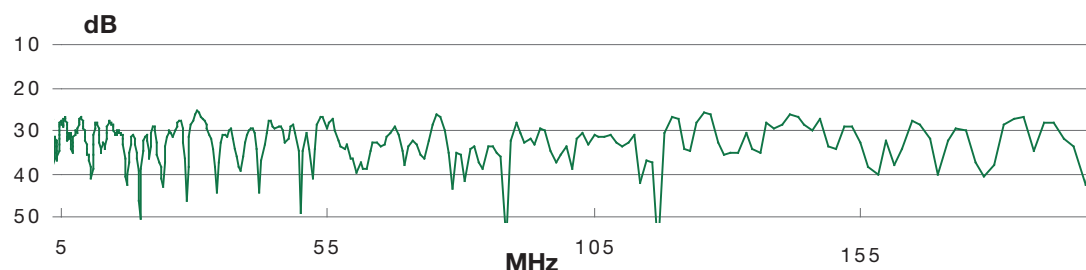
Mechanical Specifications - Multicores

	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	65 Kg/Km	106 Kg/Km
Physical properties unaged 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
	135 MHz	26.64 dB/100m
	180 MHz	30.99 dB/100m

Structural return loss



Description

Stock code	Description	Reel length
278-302-020	Van Damme Red Series Plasma Grade mini coax Ecoflex LSZH 2 way	500m
278-305-020	Van Damme Red Series Plasma Grade mini coax Ecoflex LSZH 5 way	500m