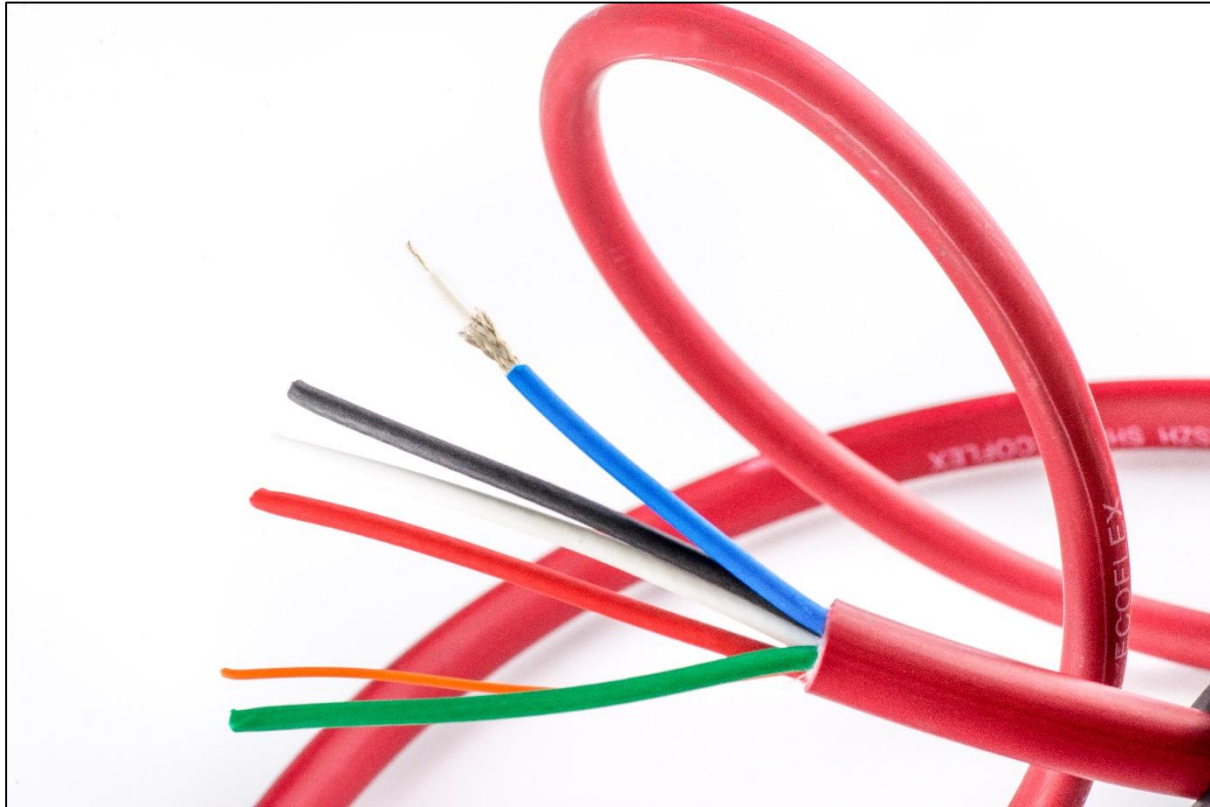


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VAN DAMME RED SERIES PLASMA GRADE ECOFLEX LSZH MINIATURE VIDEO MULTICORE



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.

KEY BENEFITS			MATERIALS			APPLICATIONS		
								
Precision 75Ω Impedance	Low Smoke Zero Halogen	Low overall diameter	Oxygen Free Copper	Foam skin polyethylene	SHF1 LSZH Polymer	AV Installations	Government Buildings	Marine Installations

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Applications

- Multicore video signal transmissions - SVHS (YC), YUV, RGBS and RGBHV (VGA)
- 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)
- Industry standard colour coded.
- All cables use RG179 type connectors and small BNC boots
- Fully tested and compliant with the following IEC standards: 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

Mechanical Specification

Conductor	7 x 0.12 mm bare ultra-pure oxygen-free copper
Conductor size	7 x 0.12 mm, 0.08 mm ² , AWG 30/7
Dielectric	Foam skin polyethylene
Diameter	1.60 ± 0.07 mm
Screen	Tinned braided oxygen free copper, < 95% coverage
Overall Jacket	SHF1 LSZH thermoplastic polymer
Coax colours	
2 way	Yellow, White
5 way	Red, Green, Blue, Black, White
Overall diameter	2.60 ± 0.07 mm

Tracer wire (5 way only)

Conductor	7 x 0.20 mm bare ultra-pure oxygen-free copper
Conductor size	7 x 0.20 mm, 0.22 mm ² , AWG 24/7
Overall jacket	SHF1 LSZH thermoplastic polymer, orange
Overall diameter	1.10 ± 0.05 mm

Overall Construction

Overall Jacket	SHF1 LSZH thermoplastic polymer Ruby Red RAL 3003
Bend Radius	15 x overall diameter
Operating temperature	-20 to + 70 °C

Electrical Specification

Impedance	75 ± 3 Ohms
Conductor Resistance	< 235 Ohm/km
Capacitance	56.5 pF/m
Velocity of Propagation	80%

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Attenuation (dB/100m)	10 MHz	6.99
	50 MHz	15.77
	100 MHz	22.74
	135 MHz	26.64
	180 MHz	30.99

Part Numbers and Description

Part Number	Description	Overall Diameter	Max. Reel Length
278-302-020	Van Damme Red Series Mini coax 2 way multicore LSZH	7.30 mm	500 m
278-305-020	Van Damme Red Series Mini coax 5 way multicore LSZH	9.60 mm	500 m

Recommended BNC Connectors

335-012-000	Van Damme BNC cable male RG179B/U
335-014-179	Van Damme BNC cable female RG179B/U
335-012-179	Van Damme BNC bulkhead female RG179B/U Neutrik rearTWIST HD BNC NBTC75BLI4

Connector selection criteria:

Conductor 0.38 mm Dielectric diameter 1.60 mm Overall diameter 2.60 mm (0.38/1.6/2.6)

Standards and Compliance

RoHS 2011/65/EU	Restriction of Hazardous Substances
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
IEC 60092-360:2014	Electrical Installations in ships - Sheathing materials for shipboard power and communication cables
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