39 Transmission Grade 11mm Triaxial camera cable

Van Damme 11mm triax cables are available in 3 versions – a polyurethane (PUR) jacketed solid centre conductor type for outside broadcast use, A Low Smoke Zero Halogen jacketed solid centre type for installations and a thermoplastic rubber (TPR) stranded centre conductor type for patching and studio floor applications. Precision manufactured to ensure compatibility with industry standard triax connectors; these cables have a red outer sheath in accordance with the UK convention.

Please note that 8mm and 14mm triax cables are all available to special order subject to minimum order quantities.

Applications

- PUR solid centre cable for long transmission lengths and hostile environments typically found in outside broadcast situations
- LSZH jacketed solid centre cable for installations in public buildings, schools and colleges and government buildings
- TPR stranded centre cable for studio floor cameras and patching
- When used with triax connector to BNC adaptors can also be used for long runs of serial digital video

Application notes

- Designed for and tested with the industry standard manufacturers' 11mm Triaxial connectors
- LSZH version jacket material specified as the thermoplastic polymer SHF1; compliant with IEC 60092 Electrical Installations
  in ships pt. 359 – Sheathing materials for shipboard power and communication cables
- LSZH version 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

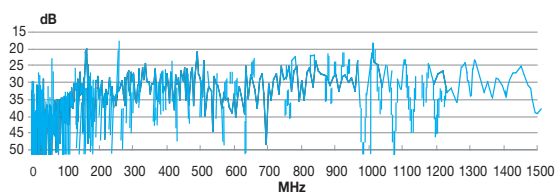
broadcast series

Mechanical specifications		268-300-020 Solid	278-300-020 Solid LSZH	268-311-020 Stranded
Conductor	Material	Silver coated pure oxygen free copper wire	Silver coated pure oxygen free copper wire	Silver coated pure oxygen free copper wire
	Stranding	1 x 1.40mm	1 x 1.40mm	19 x 0.30 (1.5mm OD)
Dielectric	Material	Foamed polyethylene	Foamed polyethylene	Foamed polyethylene
	Average thickness	2.55mm	2.55mm	2.55mm
	Diameter	6.50mm ±0.03	6.50mm ±0.03	6.50mm ±0.03
Inner Shield	Material	Silver coated wire	Silver coated wire	Silver coated wire
	Coverage	95%	95%	95%
	Dimension	24x10x0.16mm	24x10x0.16mm	24x10x0.16mm
Internal Jacket	Material	Low Density Polyolefin (PE-LD)	SHF-1 LSZH thermoplastic polymer	Thermoplastic Rubber (TPR)
	Average thickness	0.70 mm	0.70 mm	0.70 mm
	Overall Diameter	8.35 mm	8.35 mm	8.35 mm
Outer Shield	Material	Bare copper wire	Bare copper wire	Bare copper wire
	Coverage	94%	94%	94%
	Dimension	24x10x0.15mm	24x10x0.15mm	24x10x0.15mm
Overall Jacket	Material	Polyurethane (PUR85)	SHF-1 LSZH thermoplastic polymer	Thermoplastic Rubber (TPR)
	Average thickness	0.90 mm	0.90 mm	0.90 mm
	Overall diameter	10.85mm	10.85mm	10.85mm
Bend radius		20 x overall diameter	20 x overall diameter	15 x overall diameter

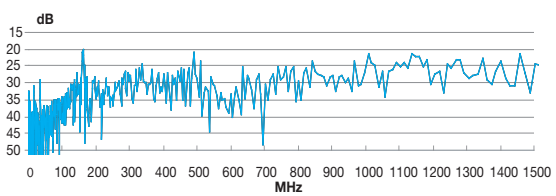
Physical properties unaged		268-300-020 Solid	278-300-020 Solid LSZH	268-311-020 Stranded
Jacket (at 60°C)	Tensile strength	25.0 N/mm²	9.0 N/mm²	10.0 N/mm²
	Elongation	300 %	125%	100 %
	Heat Shock Test	150°C x 1 hour/ No cracks	150°C x 1 hour/ No cracks	150°C x 1 hour/ No cracks
Weight (Kg/km)		165	165	168

Electrical Specifications		268-300-020 Solid	278-300-020 Solid LSZH	268-311-020 Stranded
Resistance	Conductor	11.20 Ohms/Km	13.00 Ohms/Km	
	Internal Shield	4.70 Ohms/Km		4.70 Ohms/Km
	External Shield	4.70 Ohms/Km		4.70 Ohms/Km
	Insulation	> 5000 M Ohm/Km		> 5000 M Ohm/Km
Voltage test		7000 V dc x 1 minute OK		7000 V dc x 1 minute OK
Capacitance		56.5 pF/m		54 pF/m
Velocity of propagation		79.5%		79%
Impedance at 200MHz		75 Ohms ± 3		75 Ohms ± 3
Attenuation	5 MHz	1.02 dB/100m		1.23 dB/100m
	10 MHz	1.46 dB/100m		1.76 dB/100m
	100 MHz	4.77 dB/100m		5.81 dB/100m
	135 MHz	5.58 dB/100m		6.80 dB/100m
	180 MHz	6.47 dB/100m		7.90 dB/100m
	200 MHz	6.86 dB/100m		8.38 dB/100m
	270 MHz	8.05 dB/100m		9.81 dB/100m
	400 MHz	9.92 dB/100m		12.10 dB/100m
	743 MHz	13.93 dB/100m		16.68 dB/100m
	1485 MHz	20.10 dB/100m		23.94 dB/100m

268-300-020/278-300-020 solid conductor structural return loss



268-311-020 stranded conductor structural return loss



Description

Stock code	Description	Reel length
268-300-020	Van Damme 11mm solid conductor triax	600m
278-300-020	Van Damme 11mm solid conductor triax LSZH	600m
268-311-020	Van Damme 11mm stranded conductor triax	500m