

## **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

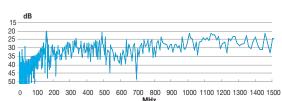
# broadcast series

Mechanical sp Conductor	Decifications Material	268-300-02 Silver coated		278-300-020 Solid LSZI Silver coated pure	Silver coated pure
		oxygen free copper wire		oxygen free copper wire	oxygen free copper wire
	Stranding	1 x 1.40mm		1 x 1.40mm	19 x 0.30 (1.5mm OD)
Dielectric	Material	Foamed polye	thylono	Foamed polyethylene	Foamed polyethylene
Dielectric	Average thickness		, u i y i c i i c	2.55mm	2.55mm
	Diameter	2.55mm 6.50mm ±0.03		6.50mm ±0.03	6.50mm ±0.03
Inner Shield	Material	Silver coated		Silver coated wire	Silver coated wire
		95%	wire	95%	95%
	Coverage				
lesses lesses	Dimension	24x10x0.16mi	m	24x10x0.16mm	24x10x0.16mm
Internal Jacket		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 v	vire	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 di	iameter	20 x overall diameter	15 x overall diameter
Physical properties unaged		268-300-020 Solid		278-300-020 Solid LSZI	H 268-311-020 Stranded
Jacket (at 60°C	Tensile strength	25.0 N/mm <sup>2</sup>		9.0 N/mm²	10.0 N/mm²
	Elongation	300 %		125%	100 %
	Heat Shock Test	150°C x 1 hou	ır/	150°C x 1 hour/	150°C x 1 hour/
Weight (Kg/km)		No cracks 165		No cracks 165	No cracks 168
<u> </u>					
Electrical Sno		268-300-020 Solid 11.20 Ohms/Km			
Resistance	<b>cifications</b> Conductor			278-300-020 Solid LSZI 13.00 Ohms/Km	H 268-311-020 Stranded
		11.20 Ohms/k		13.00 Ohms/Km	4.70 Ohms/Km
	Conductor	11.20 Ohms/k Shield	ζm	13.00 Ohms/Km ns/Km	
	Conductor Internal S	11.20 Ohms/k Shield Shield	4.70 Ohm 4.70 Ohm	13.00 Ohms/Km ns/Km	4.70 Ohms/Km
	Conductor Internal S External	11.20 Ohms/k Shield Shield	4.70 Ohm 4.70 Ohm > 5000 M	13.00 Ohms/Km ns/Km ns/Km I Ohm/Km	4.70 Ohms/Km 4.70 Ohms/Km
Resistance	Conductor Internal S External	11.20 Ohms/k Shield Shield	4.70 Ohm 4.70 Ohm > 5000 M	13.00 Ohms/Km ns/Km ns/Km l Ohm/Km c x 1 minute OK	4.70 Ohms/Km 4.70 Ohms/Km > 5000 M Ohm/Km
Voltage test Capacitance	Conductor Internal S External Insulation	11.20 Ohms/k Shield Shield	4.70 Ohm 4.70 Ohm 5 5000 M 7000 V do	13.00 Ohms/Km ns/Km ns/Km l Ohm/Km c x 1 minute OK	4.70 Ohms/Km 4.70 Ohms/Km > 5000 M Ohm/Km 7000 V dc x 1 minute OK
Voltage test Capacitance Velocity of prop	Conductor Internal S External Insulation	11.20 Ohms/k Shield Shield	4.70 Ohm 4.70 Ohm > 5000 M 7000 V dd 56.5 pF/m	13.00 Ohms/Km ns/Km ns/Km I Ohm/Km c x 1 minute OK	4.70 Ohms/Km 4.70 Ohms/Km > 5000 M Ohm/Km 7000 V dc x 1 minute OK 54 pF/m
Voltage test Capacitance	Conductor Internal S External Insulation	11.20 Ohms/k Shield Shield	4.70 Ohm 4.70 Ohm > 5000 M 7000 V dd 56.5 pF/m 79.5%	13.00 Ohms/Km ns/Km l Ohm/Km c x 1 minute OK n	4.70 Ohms/Km 4.70 Ohms/Km > 5000 M Ohm/Km 7000 V dc x 1 minute OK 54 pF/m 79%
Voltage test Capacitance Velocity of prop Impedance at 2	Conductor Internal S External Insulation agation	11.20 Ohms/k Shield Shield	4.70 Ohm 4.70 Ohm > 5000 M 7000 V dd 56.5 pF/m 79.5% 75 Ohms	13.00 Ohms/Km ns/Km ns/Km l Ohm/Km c x 1 minute OK n ± 3	4.70 Ohms/Km 4.70 Ohms/Km > 5000 M Ohm/Km 7000 V dc x 1 minute OK 54 pF/m 79% 75 Ohms ± 3
Voltage test Capacitance Velocity of prop Impedance at 2	Conductor Internal S External Insulation aggation 000MHz 5 MHz	11.20 Ohms/k Shield Shield n	4.70 Ohm 4.70 Ohm > 5000 M 7000 V do 56.5 pF/n 79.5% 75 Ohms 1.02 dB/1	13.00 Ohms/Km ns/Km ns/Km l Ohm/Km c x 1 minute OK n ± 3 l00m l00m	4.70 Ohms/Km 4.70 Ohms/Km > 5000 M Ohm/Km 7000 V dc x 1 minute OK 54 pF/m 79% 75 Ohms ± 3 1.23 dB/100m
Voltage test Capacitance Velocity of prop Impedance at 2	Conductor Internal S External Insulation aggation 000MHz 5 MHz 10 MHz 100 MHz	11.20 Ohms/k Shield Shield n	4.70 Ohm 4.70 Ohm > 5000 M 7000 V dc 56.5 pF/n 79.5% 75 Ohms 1.02 dB/1 1.46 dB/1 4.77 dB/1	13.00 Ohms/Km ns/Km ns/Km l Ohm/Km c x 1 minute OK n ± 3 l Oom l Oom	4.70 Ohms/Km 4.70 Ohms/Km > 5000 M Ohm/Km 7000 V dc x 1 minute OK 54 pF/m 79% 75 Ohms ± 3 1.23 dB/100m 1.76 dB/100m 5.81 dB/100m
Voltage test Capacitance Velocity of prop Impedance at 2	Conductor Internal S External Insulation  aggation 00MHz 5 MHz 10 MHz	11.20 Ohms/k Shield Shield n	4.70 Ohm 4.70 Ohm > 5000 M 7000 V dc 56.5 pF/m 79.5% 75 Ohms 1.02 dB/1 1.46 dB/1 4.77 dB/1 5.58 dB/1	13.00 Ohms/Km ns/Km ns/Km l Ohm/Km c x 1 minute OK n ± 3 l 00m l 00m l 00m l 00m	4.70 Ohms/Km 4.70 Ohms/Km > 5000 M Ohm/Km 7000 V dc x 1 minute OK 54 pF/m 79% 75 Ohms ± 3 1.23 dB/100m 1.76 dB/100m
Voltage test Capacitance Velocity of prop Impedance at 2	Conductor Internal S External Insulation  agation 000MHz 5 MHz 10 MHz 100 MHz 135 MHz	11.20 Ohms/k Shield Shield n	4.70 Ohm 4.70 Ohm > 5000 M 7000 V do 56.5 pF/m 79.5% 75 Ohms 1.02 dB/1 4.77 dB/1 5.58 dB/1 6.47 dB/1	13.00 Ohms/Km ns/Km ns/Km l Ohm/Km c x 1 minute OK n  ± 3 l 00m l 00m l 00m l 00m l 00m	4.70 Ohms/Km 4.70 Ohms/Km > 5000 M Ohm/Km 7000 V dc x 1 minute OK 54 pF/m 79% 75 Ohms ± 3 1.23 dB/100m 1.76 dB/100m 5.81 dB/100m 6.80 dB/100m
Voltage test Capacitance Velocity of prop Impedance at 2	Conductor Internal S External Insulation Regation ROOMHz 5 MHz 10 MHz 100 MHz 135 MHz 180 MHz	11.20 Ohms/k Shield Shield n	4.70 Ohm 4.70 Ohm > 5000 M 7000 V do 56.5 pF/m 79.5% 75 Ohms 1.02 dB/1 4.77 dB/1 5.58 dB/1 6.47 dB/1 6.86 dB/1	13.00 Ohms/Km ns/Km ns/Km l Ohm/Km c x 1 minute OK n  ± 3 l 00m	4.70 Ohms/Km 4.70 Ohms/Km > 5000 M Ohm/Km 7000 V dc x 1 minute OK 54 pF/m 79% 75 Ohms ± 3 1.23 dB/100m 1.76 dB/100m 5.81 dB/100m 5.80 dB/100m 7.90 dB/100m
Voltage test Capacitance Velocity of prop Impedance at 2	Conductor Internal S External Insulation  aggation 000MHz 5 MHz 10 MHz 100 MHz 135 MHz 180 MHz 200 MHz 270 MHz	11.20 Ohms/k Shield Shield n	4.70 Ohm 4.70 Ohm > 5000 M > 5000 V do 56.5 pF/m 79.5% 75 Ohms 1.02 dB/1 1.46 dB/1 4.77 dB/1 5.58 dB/1 6.47 dB/1 6.86 dB/1 8.05 dB/1	13.00 Ohms/Km ns/Km ns/Km lohm/Km c x 1 minute OK n  ± 3 loom loom loom loom loom loom loom loo	4.70 Ohms/Km 4.70 Ohms/Km > 5000 M Ohm/Km 7000 V dc x 1 minute OK 54 pF/m 79% 75 Ohms ± 3 1.23 dB/100m 1.76 dB/100m 5.81 dB/100m 6.80 dB/100m 7.90 dB/100m 8.38 dB/100m 9.81 dB/100m
Voltage test Capacitance Velocity of prop Impedance at 2	Conductor Internal S External Insulation Regation ROOMHz 5 MHz 10 MHz 100 MHz 135 MHz 180 MHz 200 MHz	11.20 Ohms/k Shield Shield n	4.70 Ohm 4.70 Ohm > 5000 M 7000 V do 56.5 pF/m 79.5% 75 Ohms 1.02 dB/1 4.77 dB/1 5.58 dB/1 6.47 dB/1 6.86 dB/1	13.00 Ohms/Km ns/Km ns/Km lohm/Km c x 1 minute OK n  ± 3 loom loom loom loom loom loom loom loo	4.70 Ohms/Km > 5000 M Ohm/Km 7000 V dc x 1 minute OK 54 pF/m 79% 75 Ohms ± 3 1.23 dB/100m 1.76 dB/100m 5.81 dB/100m 5.80 dB/100m 7.90 dB/100m 8.38 dB/100m

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

#### 15 20 30 30 45 50 0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 MHz

# 268-311-020 stranded conductor structural return loss



## Description

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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