12 Brown Series Ecoflex Starquad LSZH





Van Damme Brown Series Ecoflex is a foil screened Low Smoke Zero Halogen (LSZH) single quad and starquad multicore primarily for the installation market. As this cable is specified for installation a foil screen as opposed to braided copper is used as the cable should not have to cope with dynamic flexing.

Applications

- Microphone level signals in installation environments; particularly where high levels of RFI and EMI may be found
- Also suitable for mixed mic/line level applications
- Installation in public buildings, schools and colleges, government premises and marine vessels
- Equipment rack wiring where LSZH materials have been specified and/or where starquad conductors would be advantageous

Application notes

- 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 60332.3C Fire retardancy of bunched cables (4 and 8 way multicores only)
- IEC 60754.1 Amount of Halogen Gas Emissions
- IEC 60754.2 Degree of acidity of released gases
- IEC 61034.2 Measurement of smoke density
- Ultra pure oxygen free copper for outstanding sonic integrity

Quad specification - single & multicore element

Conductor	Material	Bare ultra pure oxygen free copper wire	
	Stranding	7 x 0.12 (0.08mm²) AWG 28/7	
Insulation	Material	Low density polyolefin	
	Average thickness	0.30mm	
	Diameter	0.90mm ±0.10	
	Colour coding	Blue + red/ Green + white	
Cabling	Type	Starquad	
	Lay length	~20mm	
Screen	Type	24µm Aluminium/polyester foil >150% coverage	
	Drain wire	7 x 0.20mm (0.22mm²) AWG 24/7	
Jacket	Material	SHF-1 LSZH polymer Ruby Red RAL 3003	
	Average thickness	0.6mm	
	Overall diameter	3.70mm ±0.12	
Overall Jacket - multicores			
Flame barrier tape	Material	Aluminium/polyester tape Al facing in	
	Coverage	>125%	
Overall jacket	Material	SHF-1 LSZH thermoplastic polymer	
	Colour	Red brown RAL 8012	
	Average thickness	See characteristics by stock code	
Bend radius		10 x overall diameter	
Physical properties unaged			
Jacket (at 60°C)	Tensile strength	>9N/mm²	
	Elongation	>125%	
	Heat shock test	150 °C x 1 hour - no cracks	
Electrical characteristics			
Resistance	Conductor	Ohm/Km	<90
	Insulation	M Ohm/Km	>5000
Capacitance	Core to core	pF/m	48 nominal
Test voltage		1000 Vdc x 1 minute OK	

Characteristics & description

Stock code	Description	Overall diameter mm	Weight Kg/km
278-801-000	Brown Series Ecoflex LSZH single quad	3.70	17
278-804-000	Brown Series Ecoflex LSZH 4 way quad	11.10	131
278-808-000	Brown Series Ecoflex LSZH 8 way quad	14.60	232

• Maximum reel length 500 metres