



Fluid resistant LSHF SF/UTP Category 5e Cable

Electrical Performance Characteristics

Parameter	Performance @ 20°C
Conductor loop resistance	Max 19Ω / 100m
Conductor resistance unbalance	Max 2%
Dielectric strength	1.0kV dc or 0.7kV ac for 1 min
Insulation resistance	>500MΩ/km @ 100-500V
Capacitance unbalance to earth	Max 160pF/100m
Velocity of propagation	<537.6nsec/100m @ 100MHz
Skew	Max 40nsec/100m @ 100MHz
Mean Characteristic Impedance	100Ω +/-5Ω @ 100MHz
Transfer Impedance	Max 100mΩ/m @ 100MHz
Coupling attenuation upto 1GHz	Min 55dB

Frequency (MHz)	1	4	10	16	20	31.25	62.5	100
Insertion Loss dB/100m	2.1	4.0	6.3	8.0	9.0	11.4	16.5	21.4
Next (dB)	65.3	56.3	50.3	47.2	45.8	42.9	38.4	35.3
PSNEXT (dB)	62.3	53.3	47.3	44.2	42.8	39.9	35.4	32.3
ELFEXT (dB / 100m)	63.8	51.8	43.8	39.7	37.8	33.9	27.9	23.8
PSELFEXT(dB /100m)	60.8	48.8	40.8	36.7	34.8	30.9	24.9	20.8
Return Loss (dB/100m)	na	23.0	25.0	25.0	25.0	23.6	21.5	20.1

PRODUCT DESCRIPTION

A high performance , fluid resistant, Low Smoke and Halogen Free (LSHF) sheathed SF/UTP, 100Ω , 4x2xAWG24/1 Class D Cat5e cable to support Gigabit Ethernet protocol combined with exceptional EMI/RFI protection for installations in horizontal and backbone areas..

PRODUCT CHARACTERISTICS

Cores	
Conductor	24AWG solid plain annealed copper
Insulation	Polyolefin
Diameter	1.10mm nom
Pair	2 cores twisted Blue-White, Orange-White, Green-White, Brown-White
Lay-up	4 pairs layed together
Tape screen	Aluminised polyester tape
Braid screen	Tinned copper wire
Outer sheath	Violet high performance LSHF sheath generally to Def Stan 61-12 Part 31

Mechanical Characteristics

Cable Diameter	7.1mm nom
Min bend radius	4 x OD (installed) 8 x OD (installation)
Temperature range	
Installation	0°C to +50°C
Operational	-20°C to +75°C
Max Tensile load	10kg

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