

SureLAN® Cat5e F/UTP 24/1awg DataGuard® Armoured (SWA) LSZH/LSZH



Application

High speed data transmission functionality designed typically for use in horizontal cable installation of local computer networks. IEEE 802.3, IEE 802.5, FDDI, ATM, RNIS. These cables operate to the protocol supported by Class D as set out in ISO/IEC 11801. The Inner and intermediate sheaths are easily stripped to facilitate termination.

Cable Design

Conductor	Solid Bare copper wire (24awg)
Insulation	High Density Polyethylene (HDPE), Ø 1,03 ± 0,02 mm
Core Stranding	2 cores twisted to a pair
Cabling	4 pairs stranded and taped
Screen	Overall Aluminium/polyester tape with solid TC drain wire
Inner Jacket	Ivory Low Smoke Zero Halogen (LSZH) : Ø 6,45 mm
Intermediate Jacket	Ivory Low Smoke Zero Halogen (LSZH) : Ø 7,70 mm max.
Armour	DataGuard® Steel Wire Armour (SWA)
Inner Jacket	Black Low Smoke Zero Halogen (LSZH) : Ø 11,70 mm approx.

Standards

Applicable Standards	IEC 61156-5, EN 50288-3-1, IS 11801 ed.2, EN 50173-1, EIA/TIA 568, EN50174
Flamability Rating	IEC 60332-1, IEC 60754-1/2, IEC 61034

Colour Code Chart

Pair	Colour
1	Blue + White/Blue
2	Orange + White/Orange
3	Green + White/Green
4	Brown + White/Brown



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Electrical Data @ 20°C

Complete conductor resistance	≤ 190 Ω/km
Resistance unbalance	≤ 2 %
Dielectric strength (continuous current)	1kV during 1min=no breakdown
Insulation resistance (500V)	≥ 5000 MΩ . km
Capacitance unbalance Real-ground	≤ 1600 pF/km
Characteristic impedance at 100 MHz	100 ± 5 Ω
Nom. Velocity	78 %
Transfer Impedance	1 MHz ≤ 40 mΩ/m
	10 MHz ≤ 40 mΩ/m
	30 MHz ≤ 50 mΩ/m
	100 MHz ≤ 200 mΩ/m
Insulation Test Voltage	700 V AC

Specification

Part Number	Type
145969	SureLAN5e 24/1awg 4pair F/UTP LSZH/LSZH FireFighter® 600V IEC60332 DataGuard® Black