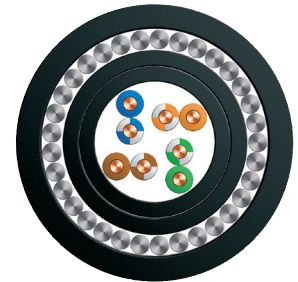


SureLAN[®] 5e U/UTP DataGuard[®] (SWA) Armoured IEC60332-1 with intermediary inner sheath

Cable Design *4x2x24awg U/UTP*

Conductor	Solid bare copper wire (24awg)
Diameter	Ø 0,510 mm
Insulation	High Density Polyethylene (HDPE)
Diameter	Ø 0,90 mm
Core identification	WHBU/BU - WHOG/OG - WHGN/GN - WHBN/BN
Assembly	2 cores twisted to a pair
Core	4 Unshielded pairs
Inner Jacket	LSZH FireFighter [®]
Diameter	Ø 5,40 ± 0,15 mm
Colour	Black
Intermediate Jacket	LSZH FireFighter [®]
Diameter	Ø 7,50 ± 0,20 mm
Colour	Black
Armour	DataGuard [®] Steel Wire Armour (SWA)
Wire Diameter	0,9 mm x 27
Outer Jacket	LSZH FireFighter [®]
Diameter	Ø 12,70 ± 0,50 mm
Colour	Black



Application


DataGuard[™] (SWA) High speed data transmissions for harsh environments .
IEEE 802.3, IEE 802.5, FDDI, ATM, RNIS.

Electrical Data at 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	66 %
Insulation Test Voltage	1 kV
Guaranteed Cat5e Performance Length	65 Metres

Frequency (MHz)	Return Loss (dB)	Insertion Loss (dB)	NEXT (dB)	ACR-N (dB)	ACR-F (dB)
1	19	4	60	56	58.60
4	19	4	54.80	50.80	44.60
8	19	5.4	50	44.60	40.60
10	19	6.1	48.50	42.10	38.60
16	19	7.7	45.20	37.50	34.50
20	19	8.7	43.70	35	32.60
25	18	9.7	42.10	32.40	30.70
31.25	17	10.9	40.50	29.60	28.70

Specification

Part Number	Type	Colour
145965	DataGuard® (SWA)	Black 

Cables

IEC 61156-5, EN 50288-3-1

Cabling system standard

IS 11801 ed.2, EN 50173-1, EIA/TIA 568

Cabling system installation standard

EN50174

Fire Behaviour

IEC 60332-1

IEC 60754-1

IEC 60754-2

IEC 61034