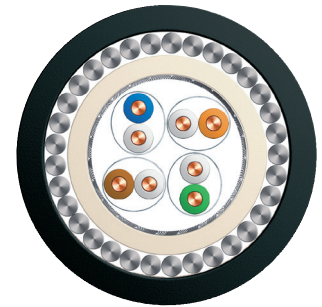


SureLAN® 6a <10Gb> SU/FTP DataGuard® Armoured (SWA)

Cable Design *4x2x23awg SU/FTP*

Conductor	Solid bare copper wire, 23awg
Insulation	Polyethylene (PE)
Core identification	WH/BE - WH/OE - WH/GN - WH/BN
Formation	4 pairs
Drain Wire	Optional
Screen	Individual Aluminium/polyester tape
Shield	Tinned copper wire braid
Inner Jacket	LSZH FireFighter®
Diameter	Ø 7,70 mm
Colour	Ivory
Armour	DataGuard® Steel Wire Armour (SWA)
Outer Jacket	LSZH FireFighter®
Diameter	Ø 11,50 mm
Colour	Black



Application

10 Gigabit high speed data transmission cable for horizontal cable distribution local computer networks. This cable operates at the ISO/IEC EA class for the 10 GBASE-T application and will function up to 550 MHz. IEEE 802.3.

- Indoor/Outdoor applications
- Mechanical protection
- Rodent Protection
- Direct Burial
- UV-Resistant

Electrical Data at 20°C

Complete conductor resistance	≤ 146.4 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 ≤ 10 mΩ/m
	10 MHz ≤ 10 mΩ/m
	30 MHz ≤ 20 mΩ/m
	100 MHz ≤ 30 mΩ/m

Frequency (MHz)	Attenuation (dB/100m)		NEXT (dB)		ACR dB/100m	EL-FEXT (dB)		Return Loss (dB)	
	Nom.	Max. Cat 7	Nom.	Min. Cat 6		Nom.	Min. Cat 6	Nom.	Min. Cat 6
1	1.8	[2.0]	100	66	98.2	92	66	23	-
4	3.3	3.6	100	65	96.7	92	58	27	23.1
10	5.3	5.7	100	59	94.7	92	50	30	25
16	6.7	7.2	100	56	93.3	92	46	30	25
20	7.5	8.1	100	55	92.5	90	44	30	25
100	17.3	18.5	98	44	80.7	75	30	28	20.1
155	21.7	23.4	94	41	72.3	70	26	27	18.8
200	24.9	26.8	91	40	66.1	68	24	25	18
300	30.7	33.3	88	-	57.3	64	-	24	-
500	39.1	44.1	85	-	45.9	59	-	22	-
600	44.6	48.9	82	-	37.4	57	-	21	-

The performance data given are typical measured values

Specification

Part Number	Type	Colour
147297	Cat6a <10Gb> SU/FTP DataGuard® (SWA)	626