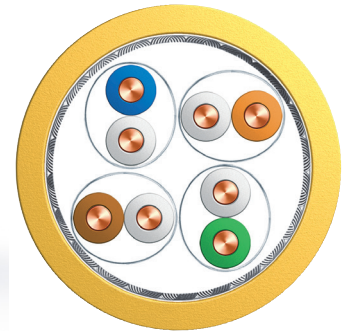
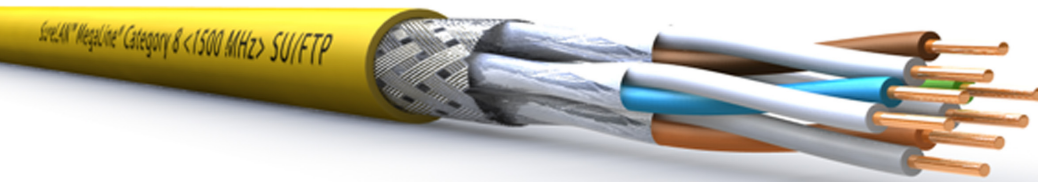


SureLAN™ MegaLine® Category 7A <1150 MHz> SU/FTP



Application

Installation cable for use in structured cabling systems acc. to ISO/IEC 11801 and EN 50173 (2nd edition) and for home cabling systems acc. to ISO/IEC 15018 and EN 50172-4.

Ideal for all applications from Classes D to F_A Multimedia (TV, video, data, voice) > 10 GbE acc. to IEEE 802.3 an, cable sharing, VoIP, PoE.

Fire Behaviour

Flame retardancy	acc. to IEC60332-3-24
Halogen free	acc. to IEC 60754-1/2
Smoke density	acc. to IEC 61034-1/2
Calorific value (approx.)	0.74 MJ/m

Performance

Better than Category 7 ("8") acc. to EN 50288 and IEC 61156, excellent NEXT, very low attenuation, excellent shielding characteristics (shielding of pairs and overall shielding), low skew, bandwidth 1,500 MHz)

Electromagnetic behaviour

Transfer impedance at 10 MHz (nom value)	2mΩ/m
Shielding atten. up to 1,200 MHz (nom. value)	80 dB
Coupling atten. up to 1,200 MHz (nom. value)	90 dB

Cable Construction

Conductor	Solid bare copper wire (23/1awg)	
Insulation	Cellular-PE	Ø 1.40 mm
No. Of Pairs	4	
Screen	Individual aluminium bonded polyester foil	
Shield	Tinned copper wire braid	
Outer Jacket	LSZH FireFighter™	Ø 7.50mm

Electrical Data at 20° C

DC resistance (max.)	57.1 Ω/km
Insulation resistance (min.)	5 GΩ x km
Mutual capacitance (approx.)	42 pF/km
Capacitance coupling (e) (approx.)	1000 pF/km
Signal velocity (c) (approx.)	0.80
Propagation delay (approx.)	420 ns/100m
Skew at 100 MHz (approx.)	3 ns/100m
Characteristic impedance at 100 MHz	100 ± Ω
Testing voltage U _{eff}	1000 V
Operating voltage (max.)	125 V

Mechanical & Thermal Characteristics

Bending Radius	During installation	8 x Ø (min.)
	after installation	4 x Ø (min.)
Temperature range	Fixed	-20° C up to +60° C
	mobile	-0° C up to +50° C
Tensile strength		130 N (max.)
Crush strength		1000 N/100m
Impact strength (number of shocks)		10
Weight (approx.)		80 kg/km

Frequency (MHz)	Attenuation (dB/100m)		NEXT (dB)		PSNEXT (dB)		ACR (dB/100m)		PSACR (dB/100m)		ELFEXT (dB/100m)		PSELFEXT (dB/100m)		RL (dB)	
	typ.	Cat "8" max.*	typ.	Cat "8" min.*	typ.	Cat "8" min.*	typ.	Cat "8" min.*	typ.	Cat "8" min.*	typ.	Cat "8" min.*	typ.	Cat "8" min.*	typ.	Cat "8" min.*
1	1.6	1.9	110	80	107	77	108	78	105	75	109	80	106	77	26.1	23
10	4.2	5.4	110	78	107	75	106	72	103	69	109	74	106	71	32.3	25
100	14.4	17.5	110	76	107	73	96	58	93	55	93	54	90	51	36.2	20.1
200	21.5	25.3	110	72	107	69	88	47	85	46	86	48	83	45	35.5	18
250	24.5	28.5	105	70	102	67	81	42	78	39	83	46	80	43	34.8	17.3
500	34	41.8	105	65.5	102	62.5	71	24	68	21	70	40	67	37	31.8	17.3
600	37.7	46.3	100	64.3	97	61.3	62	18	59	15	64	38.4	61	35.4	28.5	17.3
800	44.5	54.5	95	62.5	92	59.5	50	8	47	5	58	35.9	55	32.9	25.3	16.1
900	48.1	58.4	95	61.7	92	58.7	47	3	44	0	54	34.9	51	31.9	23.8	15.5
1,000	49	62	92	61	89	58	43	-1.1	40	-4	49	34	46	31	22.2	15.1
1,200	54.9	69	88	59.8	85	56.8	34	-9	31	-12	40	32.4	37	29.4	20.2	14.3
1,300	57	-	81	-	78	-	24	-	21	-	35	-	22	-	18.3	-
1,400	58.1	-	74	-	71	-	16	-	13	-	30	-	27	-	16.3	-
1,500	62	-	73	-	70	-	11	-	8	-	25	-	27	-	12.3	-

* EN 50288-4-4(2004)/IEC 61156-5(2002)/IEC 61156-7(2003)