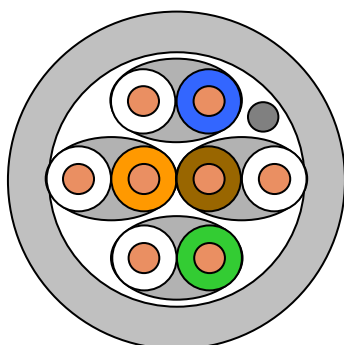


SILVERLINE TREND Cat.6A 10G

U/FTP

EN 50173-1; ISO/IEC 11801; EN 50822-6-1; EIA/TIA 568 B.2-1.; IEC61156-5



Application

Structured wiring systems

Standards

SILVERLINE TREND is approved by 3P

Flame resistance

LSOH : IEC 60754-2; IEC 61034, IEC 60332-1

Construction

Conductor	Copper wire, bare Ø 0.55 mm (AWG23)
Insulation	Polyethylene, Ø 1.4 mm
Twisting	2 cores to the pair
Pair screen	Al-laminated plastic foil
Cable lay up	4 pairs (PiMF) to the core; drain wire Ø =0,4mm
Sheath	LSOH grey RAL 7035

Mechanical properties

Minimum bending radius	Installation	8 x D
	Installed	4 x D
Maximum pulling force		100 N
Temperature range	Operation	-20°C up to + 60°C
	Installation	0°C up to + 50°C
Fire load	LSOH	732 MJ/km

SILVERLINE TREND Cat.6A 10G

Electrical properties

at 20 °C

Characteristic impedance	@ 100 MHz	100 ± 5 Ω
DC loop resistance	max.	145 Ω/km
Resistance unbalance	max.	2%
Propagation delay		≤ 500 ns/100 m
Delay skew	max.	≤ 20 ns/100 m
Transfer impedance	1 MHz	50 mΩ /m
	10 MHz	100 mΩ /m
Nominal velocity of propagation		0.75 c
Capacitance	nominal	45 pF/km
Capacitance unbalance (pair to ground)	max.	800 pF/km

Nominal Transmission characteristics

at 20 °C

F	Dämpfung,	NEXT	ACR	Return loss	PS-NEXT	PS-ACR	ELFEXT	PS-ELFEXT
(MHz)	(dB/100m)	(dB)	(dB/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)	(dB/100m)
1	2,0	90	88		87	85	85	82
4	3,6	90	86	27	87	83	85	82
10	5,7	90	84	30	87	81	79	76
16	7,2	90	83	30	87	80	75	72
20	8,1	90	82	30	87	79	73	70
31.25	10,2	90	80	30	87	77	69	66
62.50	14,7	90	75	30	87	72	63	60
100	18,9	90	71	30	87	68	59	56
155	24,0	88	64	26	85	61	55	52
200	27,0	88	61	25	85	58	53	50
250	31,4	86	55	25	83	52	51	48
300	34,8	86	51	23	83	48	49	46
500	43,0	86	43	23	83	40	44	41

Technical data

Product name	Sheath	Colour	Outer diameter	Length PWD*	Weight	Art.-Nr. ELBRO
SILVERLINE TREND Cat.6A LSOH U/FTP 4x2/ AWG23	LSOH	Grau, RAL7035	7,3	500m	45 kg/km	STP-10 455-5
SILVERLINE TREND Cat.6A LSOH U/FTP 4x2/ AWG23	LSOH	Grau, RAL7035	7,3	1000m	45 kg/km	STP-10 455-10

*PWD (Plywood drums)