



Application

Tertiary (Horizontal)

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;

IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Standards

TIA/EIA-568-C.2

ISO/IEC 11801; IEC 61156-5

EN 50173-1; EN 50288-2-2

Flame resistance

LSHF (LSOH): IEC 60332-1; IEC 60754-2; IEC 61034

Construction

Conductor	stranded bare copper wire, \varnothing 0.48 mm (AWG26)
Insulation	Polyethylene, \varnothing 0.95 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Screen	Al-laminated plastic foil, stranded drain wire AWG26 tinned
Sheath	LSHF (LSOH), grey RAL 7035

Mechanical properties

Bending radius

without load	≥ 20 mm
with load	≥ 40 mm
during operation	-20°C upto + 60°C
during installation	0°C upto + 50°C

Temperature range

KELine[®]
Patch cable**F/UTP 4x2x0.48(AWG26) CAT.5E LSOH**
100Ω Patch Cable ISO/IEC 11801 CAT.5e**F/UTP****Electrical properties****at 20°C±5°C**

Loop resistance		≤ 260Ω/km
Resistance unbalance		≤ 3%
Insulation resistance	(500 V)	≥ 2000 MΩxkm
Mutual capacitance	at 800 Hz	Nom. 48 nF/km
Capacitance unbalance	(pair/ground)	≤ 1500 pF/km
Characteristic impedance	(1-100 MHz)	(100 ± 15) Ω
Nominal velocity of propagation		Ca. 67%
Propagation delay		≤ 535 ns/100 m
Delay skew		≤ 20 ns/100 m
Test voltage		1000 V
Transfer impedance	at 1 MHz	≤ 50 mΩ/m
	at 10 MHz	≤ 100 mΩ/m
	at 30 MHz	≤ 200 mΩ/m

Electrical data (nominal)**acc. to Cat.5e (at 20°C)**

F	Attenuation	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	Return loss
(MHz)	(dB/10m)	(dB)	(dB)	(dB/10m)	(dB/10m)	(dB)
1	0.3	71	68	68	65	23
4	0.6	62	59	56	53	23
10	0.9	56	53	48	45	23
16	1.1	53	50	44	41	23
20	1.3	51	48	42	39	23
31.2	1.6	49	46	38	35	23
62.5	2.4	44	41	32	29	23
100	3.0	41	38	28	25	23
125	3.3	40	37	26	23	23
155.5	3.6	38	35	24	21	23
175	3.9	37	34	23	20	
200	4.1	36	33	22	19	
250	4.4	35	32	20	17	
300	4.8	34	31	16	13	

Technical data

Product code	Designation	Brand name	Colour	Outer diameter mm	Fire load		Weight netto kg/km	Copper content	Tensile force
					MJ/km	kWh/m			
KE300S26	F/UTP 4x2x0.48AWG26	KELine	grey	5.4	344	0.096	25	12	55N