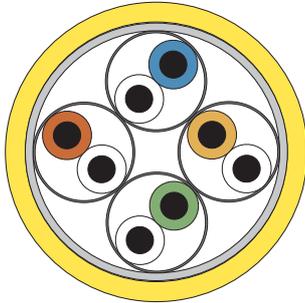


Datacable - Twisted Pair - Category 7+

SPEEDLAN® – up to 1500 MHz

XLAN-1500 C/STP 22-4P



1,5 GHz	Frequency range	DA 4	Number of double cores
Z 100Ω	Impedance	C	Overall screening
AWG 22	Dimension of Conductor	Cable make up	
Cable elements			

Type	Number of double cores	Fire load value kWh/m	Outer diameter approx. mm	Weight approx. kg/km
XLAN-1500 C/STP 22-4P <small>Values in () are valid for FRNC-version</small>	4	0,351 (0,249)	9,4	92 (85)

Specification

Application

Overall shielded data transmission cable for 1500 MHz with individually shielded pairs.

Future-safe high-screened data cable with very high system reserves (far better than Cat.7) and outstanding EMV characteristics. Suitable for highest data transmission rates and Multimedia applications. For highest application flexibility and quality requirements.

Usable for:

10BaseT, 100BaseT, 1000BaseT, ATM 155/622Mbit/s, TP-PMD 125 Mbit/s, CDDI/TPDDI, Token Ring 4/16 Mbit/s, ISDN, analogue telephony, Cable-Sharing

Construction details

Conductor: solid, bare copper wire Ø 0,64 mm
 Insulation: Skin-foam-skin
 Colour code: WT/BU; WT/OR; WT/GN; WT/BN (acc.to IEC 708)
 Cable make up: cores twisted together, aluminium laminated PET-foil – aluminium outside (STP), shielded pairs cabled together
 Screening: tinned copper braid (C),
 Sheath: PVC, yellow (appr. RAL 1018)

Note

Also available with halogenfree (LSOH, FRNC) sheath according to EN 50167 (**XLAN-1500 C/STP 22-4P FRNC**); yellow

Cable Marking

XLAN-1500 C/STP 22-4P CAT.7 ISO/IEC 11801 1,5 GHZ PMD P/N... <JT> * SPEEDLAN * <00000m>

Electrical Details (at 20°C)

Standard	Category 7 acc. to EN50288-4-1
Loop resistance	≤ 114 Ω/km
Insulation resistance	≥ 10 GΩkm
Mutual capacitance (at f=800Hz)	nom. 42 nF/km
Capacitance unbalance k (at f=800Hz)	≤ 100 pF/500m
Capacitance unbalance e (at f=800Hz)	≤ 750 pF/500m
Propagation Delay (NVP)	nom. 77 %
Transfer Impedance R _k at 1-100 MHz	≤ 8 mΩ/m
Impedance Z	
1≤f≤300MHz	100±15 % Ω
300<f≤600MHz	100±25 % Ω
Dielectric strength	1000V/50Hz conductor/conductor 1000V/50Hz conductor/shield
Temperature range during installation for stationary conditions	-5 up to +50 °C -30 up to +70 °C

Frequency	f	MHz		1	4	10	16	20	31,25	62,5	100	155	300	600	800	1000	1200	1500
Attenuation	α	dB/100m	max. ¹⁾	2,1	3,9	6,0	7,6	8,5	10,6	15,0	19,0	24,0	33,0	50,0	-	-	-	-
			typ.	1,6	2,9	4,7	6,1	6,9	8,5	12,0	15,0	19,5	27,0	38,5	45,0	50,5	54,5	60,0
NEXT	α _{NN}	dB	min. ¹⁾	80	80	80	80	80	80	75	71	68	64	60	-	-	-	-
			typ.	>100	>100	>100	>100	>100	>100	>100	>100	100	89	77	71	65	63	61
ACR		dB	min. ¹⁾	78,0	76,2	74,0	72,4	71,5	69,4	60,0	52,0	44,0	31,0	10,0	-	-	-	-
			typ.	>90	>90	>90	>90	>90	>90	>88	>85	80,5	62,0	38,5	26,0	15,5	8,5	1,0
Return Loss	R _L	dB	min	23	23	23	23	23	23	23	23	23	23	20	-	-	-	-
			typ.	26	26	26	26	26	26	26	26	26	26	26	23	-	-	-

¹⁾ Category 7 – values according to EN50288-4-1