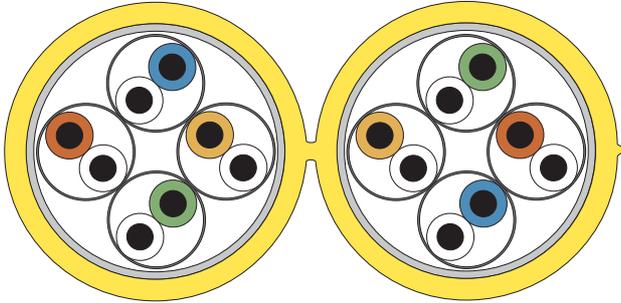


# Datacable – Twisted Pair - Category 7

**SPEEDLAN® – up to 900 MHz**

**XLAN-900 C/STP 23-2x4P DUPLEX**



<b>900 MHz</b>	Frequency range	<b>DA 2x4</b>	Number of double cores
<b>Z 100Ω</b>	Impedance	<b>C</b>	Overall screening
<b>AWG 23</b>	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-900 C/STP 23-2x4P DUPLEX <small>Values in ( ) are valid for FRNC-version</small>	8	0,450 (0,339)	7,6 x 16,2	125 (114)

### Specification

#### Application

Overall shielded data transmission cable for 900 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. Usable 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 0,55 mm  
 Insulation: skin-foam-skin PE  
 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), 2 shielded elements parallel (DUPLEX)  
 Sheath: PVC, yellow (approx. RAL 1018)

#### Note

Also available with halogenfree (LSOH, FRNC) sheath according to EN 50167 (XLAN-900 C/STP 23-2x4P FRNC DUPLEX); yellow

#### Cable Marking

XLAN-900 C/STP 23-2x4P DUPLEX CAT.7 ISO/IEC 11801 900 MHZ PMD P/N... <JTTT> \* SPEEDLAN \* <00000m>

### Electrical Details (at 20°C)

Standard	Category 7 acc.to EN50288-4-1 Category 6 acc.to DIN 44312-5 Draft
Loop resistance	≤ 155 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	nom. 77 %
Transfer Impedance R <sub>k</sub> at 1–10 MHz	≤ 10 mΩ/m
Impedance Z 1≤f≤300MHz 300<f≤600MHz	100±15 % Ω 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	900
Attenuation	α	dB/100m	max. <sup>1)</sup>	2,0	3,8	6,0	7,6	8,5	10,6	15,0	19,0	25,0	33,0	50,0	-	-
			typ.	1,9	3,5	5,6	7,1	8,0	9,9	14,0	17,6	22,0	31,0	47,0	53,0	56,0
NEXT	α <sub>NN</sub>	dB	min. <sup>1)</sup>	80	80	80	80	80	80	75	71	68	64	60	-	-
			typ.	>90	>90	>90	>90	>90	>90	90	85	80	73	69	66	65
ACR		dB	min. <sup>1)</sup>	78,0	76,2	74,0	72,4	71,5	69,4	60,3	52,1	42,3	30,7	10,0	-	-
			typ.	>88	>86	>84	>83	>82	>80	76,0	67,4	58,0	42,0	22,0	13,0	9,0
Return Loss	R <sub>L</sub>	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	-

<sup>1)</sup> Category 7 – limits according to EN50288-4-1