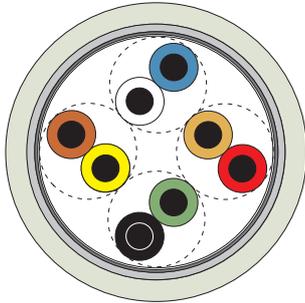


Datacable - Twisted Pair - Category 5

SPEEDLAN® – up to 300 MHz

XLAN-200 SC/UTP V0,6-..P



300 MHz	Frequency range	DA 2-4	Number of double cores
Z 100Ω	Impedance	SC	Overall screening
Ø 0,6	Dimension of conductor	Ø	Cable make up
⊙ ⊙	Cable elements		

Type	Number of double cores	Fire load value kWh/m	Outer diameter approx. mm	Weight approx. kg/km
XLAN-200 SC/UTP V0,6-2P	2	0,143 (0,095)	6,9	40 (362)
XLAN-200 SC/UTP V0,6-4P	4	0,217 (0,149)	7,2	68 (64)

Values in () are valid for FRNC-version

Specification

Application

Overall shielded data transmission cable for 300 MHz.
 Compact designed shielded data cable with rather good system reserves (far better than Cat.5) and excellent shielding effects. Usable for all current data services as well as Gigabit Ethernet.
 Usable for:
 10BaseT, 100BaseT, 1000BaseT, ATM 155 Mbit/s, TP-PMD 125 Mbit/s, CDDI/TPDDI, Token Ring 4/16 Mbit/s, ISDN, analogue telephony.

Construction details

Conductor: solid, tinned copper wire Ø 0,62 mm(V)
 Insulation: skin-foam-skin PE
 Colour code: WT/BU; TK/PU; (2P)
 WT/BU; RD/OR, GN/BK; YE/BN (4P)
 Cable make up: cores twisted to pairs (UTP), pairs cabled together, wrapping with plastic tapes
 Stat. screening: aluminium laminated PETP-foil (S), aluminium outside,
 Screening: tinned copper braid (C),
 Sheath: PVC, grey (approx. RAL 7035)

Note

Also available with halogenfree (LSOH, FRNC) sheath according to EN 50167 (XLAN-200 SC/UTP V0,6-..P FRNC); orange

Cable Marking

XLAN-200 SC/UTP V0,6-..P CAT.5 EN50173 PMD P/N... <JTTT>
 * SPEEDLAN * <00000m>

Electrical Details (at 20°C)

Standard	Category 5 (TIA/EIA-568-A, ISO/IEC 11801, EN50173)
Loop resistance	≤ 120 Ω/km
Insulation resistance	≥ 10 GΩkm
Mutual capacitance (at f=800Hz)	nom. 45 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 _{Tk} at 1-100 MHz	≤ 10 mΩ/m
Impedance Z ≥ 1 MHz	100±15 % 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	200	300
Attenuation	α	dB/100m	max. ¹⁾	2,1	4,3	6,6	8,2	9,2	11,8	17,1	22,0	-	-	-
			typ.	1,8	3,2	5,1	6,5	7,4	9,2	13,2	17,2	22,3	26,0	31,0
NEXT	α _{NN}	dB	min. ¹⁾	62	53	47	44	42	40	35	32	-	-	-
			typ.	70	61	55	52	51	48	45	43	40	38,0	36,5
ACR		dB	min. ¹⁾	59,9	48,7	40,4	35,8	32,8	28,2	17,9	10,0	-	-	-
			typ.	68,2	57,8	49,9	45,5	43,6	48,8	31,8	25,8	17,7	12,0	5,5
Return Loss	R _L	dB	min	20	23	25	25	25	23,6	21,5	20,1	-	-	-
			typ.	22	25	27	27	27	25,5	23,5	22,0	20,8	20	18,7

¹⁾ Category 5 – values according to TIA/EIA-568-A, ISO/IEC 11801, EN 50173