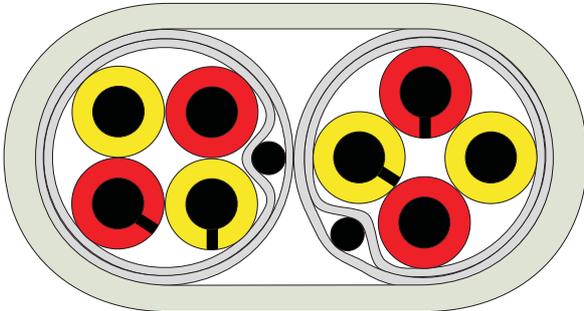


Datacable - Twisted Quad - Category 5

SPEEDLAN® – up to 300 MHz

XLAN-200 U/STQ 0,6-..Q



300 MHz	Frequency range	DA 2-14	Number of double cores
Z 100Ω	Impedance		Overall screening
Ø 0,6	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-200 U/STQ 0,6-1Q	2	0,296 (0,220)	6,5	52 (50)
XLAN-200 U/STQ 0,6-2Q	4	0,394 (0,385)	6,5 x 10,8	76 (74)
XLAN-200 U/STQ 0,6-3Q	6	0,677 (0,513)	11,1	123 (113)
XLAN-200 U/STQ 0,6-7Q	14	1,139 (1,038)	15,0	258 (235)

Values in () are valid for FRNC-version

Specification

Application

Data transmission cable for 300 MHz with individually double-shielded quads. Usable for mixed data applications (Cable-Sharing) and terminal multiplexer (ICCS applicable)

Usable for:

10BaseT, 100Base-VG (≥ 2 quads), ATM 155 Mbit/s, TP-DDI, Token Ring 4/16 Mbit/s, ISDN, analogue telephony.

Construction details

Conductor: solid, bare copper wire Ø 0,64 mm

Insulation: PE

Colour code: RD; YE; RD/BK; YE/BK

Cable make up: cores twisted to quads, wrapping with overlapping plastic tapes, aluminium laminated PETP-foil (aluminium outside), tinned drain wire; Ø 0,4 mm, aluminium laminated PETP-foil (aluminium inside) (STQ),

2 shielded quads parallel or shielded quads cabled together

Sheath: PVC, grey (approx. RAL 7032)

Note

Also available with halogenfree (LSOH, FRNC) sheath according to EN 50167 (**XLAN-200 U/STQ 0,6-..Q FRNC**).

Cable Marking

XLAN-200 U/STQ 0,6-..Q CAT.5 EN 50173 PMD P/N...

Electrical Details (at 20°C)

Standard	Category 5 acc. to ISO/IEC 11801, EN 50173
Loop resistance	≤ 130 Ω/km
Insulation resistance	≥ 10 GΩkm
Mutual capacitance (at f=800Hz)	nom. 46 nF/km
Capacitance unbalance k (at f=800Hz)	≤ 100 pF/500m
Capacitance unbalance e (at f=800Hz)	≤ 750 pF/500m
Propagation Delay (NVP)	nom. 71%
Transfer impedance R _k at 1-100 MHz	≤ 40 mΩ/m
Impedance Z ≥ 1 MHz	100±15 % Ω
Dielectric strength	1000V/50Hz conductor/conductor 2000V/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. ^{*)}	2,1	4,3	6,6	8,2	9,2	11,8	17,1	22,0	-	-	
			typ.	2,0	3,6	5,5	6,7	7,4	9,2	13,2	17,4	22,8	26,0	32,3
NEXT	α _{NN}	dB	min. ^{*)}	62	53	47	44	42	40	35	32	-	-	
			(internal quads) typ.	66	56	51	50	49	45	42	39	36	34	32
			(other quads) typ.	90	90	80	78	75	70	62	58	52	48	45
ACR		dB	min. ^{*)}	59,9	48,7	40,4	35,8	32,8	28,2	17,9	10	-	-	
			(other quads) typ.	88	86,4	74,5	71,3	67,3	60,8	48,8	40,6	29,2	22,0	12,7
Return Loss	R _L	dB	min	23	23	23	23	23	23	23	-	-	-	
			typ.	27	27	27	27	27	27	27	27	27	26	25

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