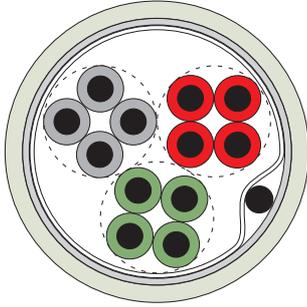


Datacable - Twisted Quad - Category 3

SPEEDLAN® – up to 16 MHz

LAN-16 S/UTQ 0,6-..Q



16 MHz	Frequency range	DA 2-10	Number of double cores
Z 100Ω	Impedance	S	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
LAN-16 S/UTQ 0,6-1Q	2	0,246 (0,161)	6,3	46 (40)
LAN-16 S/UTQ 0,6-2Q	4	0,368 (0,260)	7,7	70 (63)
LAN-16 S/UTQ 0,6-3Q	6	0,350 (0,368)	7,8	78 (71)
LAN-16 S/UTQ 0,6-5Q	10	0,502 (0,368)	9,3	114 (105)

Values in () are valid for FRNC-version

Specification

Application

Overall shielded data transmission cable for 16 MHz.

Classical shielded data-/telecommunication cable for middle bit rate data transmission or structured telecommunication cablings.

Usable for:

100Base-T4 (≥ 2 quads), 10Base-T, Token Ring 4/16 Mbit/s, ISDN, xDSL, analogue telephony

Construction details

Conductor: solid, bare copper wire Ø 0,6 mm

Insulation: PE

Colour code: RD, GN, GY, YE, WT (with ring marking)

Cable make up: cores twisted to quads (**UTQ**), up to 5 quads cabled together

Drain wire: tinned copper wire; Ø 0,6 mm

Screening: aluminium laminated PETP-foil (**S**)

Sheath: PVC, grey (approx. RAL 7032)

Note

Also available with halogenfree (LSOH, FRNC) sheath encompassing EN 50169 (**LAN-16 S/UTQ 0,6-..Q FRNC**).

Cable Marking

LAN-16 S/UTQ 0,6-..Q CAT.3 PMD P/N...

Electrical Details (at 20°C)

Standard	Category 3 (TIA/EIA-568-A) similar to VDE 0815/ VDE 0816
Loop resistance	≤ 130 Ω/km
Insulation resistance	≥ 10 GΩkm
Mutual capacitance (at f=800Hz)	nom. 52 nF/km
Capacitance unbalance k1 (at f=800Hz)	100 % d. Werte ≤ 800 ¹⁾ pF/300m
	98 % d. Werte ≤ 400 pF/300m
Capacitance unbalance k ₉₋₁₂ (at f=800Hz)	100 % d. Werte ≤ 300 ¹⁾ pF/300m
	98 % d. Werte ≤ 100 pF/300m
¹⁾ only valid for min. 2 quads	
Propagation Delay (NVP)	nom. 71 %
Impedance Z ≥ 1 MHz	100±15 % Ω
Dielectric strength	1000V/50Hz conductor/conductor 2000V/50Hz conductor/shield
Temperature range during installation	-5 up to +50 °C
for stationary conditions	-30 up to +70 °C

Frequency	f	MHz		1	4	10	16
Attenuation	α	dB/100m	max. ¹⁾	2,6	5,6	9,8	13,1
			typ.	2,5	4,6	6,5	7,8
NEXT	α _{NN}	dB	min. ¹⁾	41	32	26	23
			(internal quads) typ.	70	60	55	50
			(other quads) typ.	70	55	40	35
ACR		dB	min. ¹⁾	38,4	26,4	16,2	9,9
			(other quads) typ.	67,5	55,4	48,5	42,2

¹⁾ Category 3 – values according to TIA/EIA-568-A