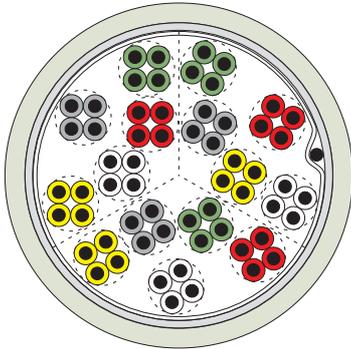


Datacable - Twisted Quad - Category 3

SPEEDLAN® – up to 16 MHz

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



16 MHz	Frequency range	DA 20-n	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
J-16 S/UTQ 0,6-10Q	20	0,784 (0,600)	12,3	201 (189)
J-16 S/UTQ 0,6-15Q	30	1,097 (0,851)	14,0	279 (263)
J-16 S/UTQ 0,6-20Q	40	1,341 (1,062)	15,7	356 (338)
J-16 S/UTQ 0,6-25Q	50	1,633 (1,321)	17,4	436 (416)
J-16 S/UTQ 0,6-30Q	60	1,959 (1,565)	19,1	528 (502)
J-16 S/UTQ 0,6-40Q	80	2,426 (1,979)	21,5	675 (646)
J-16 S/UTQ 0,6-50Q	100	3,143 (2,547)	25,2	850 (811)

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 cabling.

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 ringmarking)
- Cable make up: cores twisted to quads (**UTQ**), 5 quads cabled together (base units), 2-10 base units cabled together, the tracer units in each layer are marked with an open red helix,
- 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 according to 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 similar to TIA/EIA-568-A and 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±20% 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
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
			typ.	66	40	35	30
ACR		dB	min. ¹⁾	38,4	26,4	16,2	9,9
			typ.	63,5	35,4	28,5	22,2

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