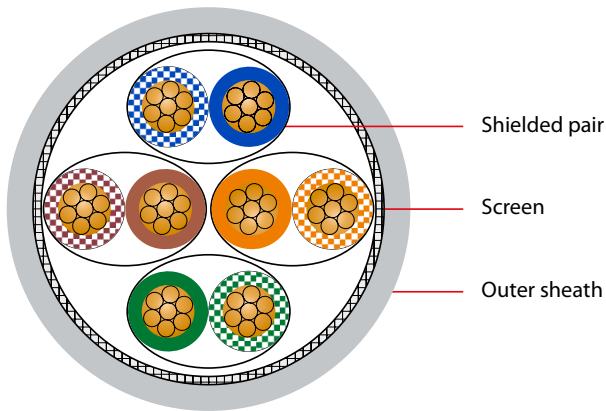


XLAN flex 600 S/FTP 4PR AWG 26/7

Patch cable
Category 7 · Class F · flexible cables · 600 MHz



APPLICATION

Flexible data cable for analogue and digital signal transmission in the frequency range up to 600 MHz. It is designed for wiring in workplace areas for appliance connection or as switchboard cable in patch panels.

Use: IEEE 802.3; 10/100/1000/10GBase-T; IEEE 802.5: FDDI, ISDN, ATM

STANDARDS

ISO/IEC 11801, 2nd edition, EN 50173-1; IEC 61156-5; EN 50288-4-2
IEC 60332-1; IEC 60754-2; EN 61034; IEC 61034; RoHS 2002/95/EC

CONSTRUCTION

Conductor: copper, strand, tinned, AWG 26/7

Core insulation: SFS-PE

Core identification: whbu-bu, whor-or, whgn-gn, whbn-bn

Core stranding: cores twisted to layers

Shielded pairs: each pair one layer plastic laminated aluminium foil; drain wire optional

Screen: tinned copper wire braid

Sheath: halogen-free compound (FRNC);

colour: grey RAL 7035 or acc. to customer request

ELECTRICAL CHARACTERISTICS

(Conductor) loop resistance max.	290 Ω/100 km
Insulation resistance min.	2 GΩ x km
Char. impedance 1 – 100 MHz	100 ±15 Ω
Char. impedance 100 – 250 MHz	100 ±22 Ω
Char. impedance 250 – 1000 MHz	100 ±25 Ω
Transfer impedance max. (10 MHz)	10 mΩ / m
Mutual capacitance nom.	45 nF/km
Relative propagation velocity approx.	0.76 c
Screen attenuation ≤ 1000 MHz min.	60 dB
Test voltage	700 V-AC

Dimension	Sheath thickness approx. mm	Diameter approx. mm	Cable weight approx. kg/km	Copper index kg/km	Calorific potential MJ/km
4 x 2 x AWG26/7	0.50	6.1	41	22	350

Transmission characteristics

The stated performance data are characteristic measurements.

f MHz	Attenuation nom. dB/100m	NEXT nom. dB	ACR nom. dB/100m	EL-FEXT nom. dB/100m	RL nom. dB
1	0.28	100	100	99	25
4	0.55	100	100	97	29
10	0.85	100	99	95	33
16	1.05	100	99	93	33
20	1.20	100	99	90	33
31.25	1.50	100	98	85	33
62.5	2.10	100	98	76	31
100	2.70	98	95	72	30
200	3.85	94	90	67	28
300	4.70	90	85	60	27
500	5.70	84	78	58	26
600	6.75	82	75	55	25

THERMAL & MECHANICAL PROPERTIES

Temperature range during installation	0° C to +50 °C
Temperature range stationary	-20 °C to +60 °C
Min. bending radius under tensile load	8 x diameter
Min. bending radius without tensile load	4 x diameter
Maximum traction	80 N

Subject to changes due to technical progress and error

