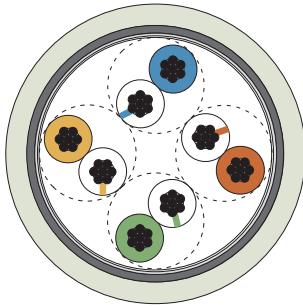


# Datacable - Patchcable - Category 5E

**SPEEDLAN®** – up to 300 MHz

**XLAN-200 SC/UTP 26-..P PATCH**



<b>300 MHz</b>	Frequency range	<b>DA 2-4</b>	Number of double cores
<b>Z 100Ω</b>	Impedance	<b>SC</b>	Overall screening
<b>AWG 26/7</b>	Dimension of conductor	<b>C</b>	Cable make up
<b>●●</b>	Cable elements		

Type	Number of double cores	Fire load value kWh/m	Outer diameter approx. mm	Weight approx. kg/km
XLAN-200 SC/UTP 26-2P PATCH	2	0,109 (0,071)	4,8	28 (26)
XLAN-200 SC/UTP 26-4P PATCH	4	0,133 (0,091)	5,3	36 (33)

Values in ( ) are valid for FRNC-version

## Specification

### Application

Overall shielded patch cable for 550 MHz.

Very compact designed and approved shielded patch cable with rather good system reserves (far better than Cat.5E) and rather good EMV characteristics. For high demands and 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: plain stranded copper conductor 7x0,16 mm Ø  
Insulation: skin-foam-skin PE  
Colour code: WT-BU/BU; WT-OR/OR; WT-GN/GN; WT-BR/BR  
Cable make up: cores twisted to pairs (**UTP**), pairs cabled together to cable core  
Stat.shield: aluminium laminated PETP-foil - aluminium outside (**S**),  
Screening: tinned copper braid (**C**),  
Sheath: PVC, grey (approx. RAL 7035), blue, yellow, green

### Note

Also available with halogenfree (LSOH, FRNC) sheath according to EN 50168 (**XLAN-200 SC/UTP 26-..P FRNC PATCH**); grey.

### Cable Marking

XLAN-200 SC/UTP 26-..P PATCH-CABLE CAT.5E PMD P/N...  
<JT<> \* SPEEDLAN \* <00000m>

## Electrical Details (at 20°C)

Standard	Category 5E (TIA/EIA-568-A-5) Category 5 (ISO/IEC 11801, EN 50173)
Loop resistance	≤ 264 Ω/km
Insulation resistance	≥ 5 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 <sub>k</sub> at 1-100 MHz	≤ 8 mΩ/m
Impedance Z ≥ 1 MHz	100±15 % Ω
Dielectric strength	500V/50Hz conductor/conductor 800V/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. <sup>*)</sup>	3,2	6,5	9,9	12,3	13,8	17,7	25,7	33,0	-	-	-
			typ.	2,6	5,4	8,4	10,7	12,1	15,2	22,3	28,8	36,8	42,6	53,5
NEXT	α <sub>NN</sub>	dB	min. <sup>*)</sup>	62	53	47	44	42	40	35	32	-	-	-
			typ.	67	58	52	50	48	45	41	38	34	31	28
ACR		dB/10m	min. <sup>*)</sup>	61,7	52,1	46,0	42,8	40,6	38,2	32,4	28,7	-	-	-
			typ.	66,7	57,4	51,1	48,9	46,7	43,4	38,7	35,1	30,3	26,7	22,6
Return Loss	R <sub>L</sub>	dB	min	20	23	25	25	25	23	20,5	19	-	-	-
			typ.	22	25	27	27	27	25	22,5	21	19	18	17

<sup>\*)</sup> Category 5 – values according to ISO/IEC 11801, EN 50173