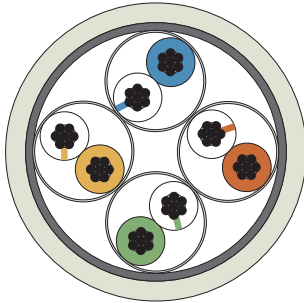


# Datacable - Patchcable - Category 6+

**SPEEDLAN® – up to 550 MHz**

**XLAN-550 C/STP 26-4P PATCH**



550 MHz	Frequency range	DA 4	Number of double cores
Z 100Ω	Impedance	C	Overall screening
AWG 26/7	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-550 C/STP 26-4P PATCH	4	0,144 (0,108)	5,8	38 (36)
Values in ( ) are valid for FRNC-version				

## Specification

### Application

Overall shielded patch cable for 550 MHz with individually shielded pairs.

Shielded patch cable with very high system reserves (far better than Cat.6) 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 together, aluminium laminated PET-foil – aluminium outside (STP), shielded pairs cabled together  
 Screening: tinned copper braid (C)  
 Sheath: PVC, grey (approx. RAL 7035)

### Note

Also available with halogenfree (LSOH, FRNC) sheath according to EN 50168 (**XLAN-550 C/STP 26-4P FRNC PATCH**); grey.

### Cable Marking

XLAN-550 C/STP 26-4P PATCH-CABLE 550 MHz PMD P/N....  
 <JTTP> \* SPEEDLAN \* <00000m>

## Electrical Details (at 20°C)

Standard	Category 6 (prEN 50288-5-2)
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	≤ 10 mΩ/m
Impedance Z	1 ≤ f ≤ 100 MHz 100±15 % Ω 100 < f ≤ 200 MHz 100±18 % 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	500	550	-	-
Attenuation	α	dB/100m	max. <sup>*)</sup>	3,1	5,7	9,0	11,4	12,8	16,1	23,2	29,9	38,0	43,7	55,0	-	-	-	-
			typ.	2,5	5,2	8,0	10,7	11,4	14,2	20,5	27,0	34,6	41,0	47,7	66,0	70,0	-	-
NEXT	α <sub>NN</sub>	dB	min. <sup>*)</sup>	66	66	60	56,9	55,5	52,6	48,1	45,0	42,2	40,5	37,8	-	-	-	-
			typ.	>90	>90	>90	>90	>90	90	85	78	73	70	66	62	60	-	-
ACR		dB/10m	min. <sup>*)</sup>	65,7	65,4	59,1	55,7	54,2	51,0	45,8	42,0	38,4	36,1	32,3	-	-	-	-
			typ.	>89	>89	>89	>89	>88,8	>88,5	82,9	75,3	70,0	65,9	61,2	55,4	53,0	-	-
Return Loss	R <sub>L</sub>	dB	min	23	23	23	23	23	23	23	23	21	20	18	-	-	-	-
			typ.	24	24	24	24	24	24	24	24	23	22	21	19,0	18,5	-	-

<sup>\*)</sup> Category 6 – values according to EN50288-5-2 (Draft)