



<h1>DATA SHEET</h1>	<h2>2170148</h2>
UNITRONIC® LAN STP/S-H PiMF FLEX 500 MHz CAT.6e 4x2xAWG26/7 (flexible for Patch Cables) halogen free	Valid from: 22.01.2007

Application

UNITRONIC® LAN STP/S-H PiMF FLEX 500 MHz CAT.6e 4x2xAWG26/7 is a flexible halogen free pair twisted (TP) **CATEGORY 6e High Speed Data Transmission Cable** for application in the working area. Harnessed it is used as **Patch Cable**.

The pair screening ensures a good data transmission. The cable is suitable for cabling in electromagnetic loaded areas.

TPDDI = **TWISTED PAIR DISTRIBUTED DATA INTERFACE**

CDDI = **COPPER DISTRIBUTED DATA INTERFACE**

Design

Conductor	Stranded bare copper wires, AWG26 (0,14 mm ²)	
Core insulation	Cellular PE (Polyethylene)	
Stranding	Cores to pairs, pairs to cable core	
Colour code	Pair 1	white - blue
	Pair 2	white - orange
	Pair 3	white - green
	Pair 4	white - brown
Screening	Pair screening by Aluminium laminated plastic foil (STP/S PiMF) Overall screening by tinned copper braiding (STP/S PiMF)	
Outer sheath	Halogen free compound, flame retardant according to IEC 60332-1, grey RAL 7035	
Outer diameter	approx. 6.5 mm	

Marking on outer sheath:

LAPP KABEL STUTTGART **UNITRONIC® LAN STP/S-H PiMF FLEX 500 Hz CAT.6e**
4x2xAWG26/7 ROHS ART.2170148

Electrical properties at 20°C

DC resistance (loop)	max. Ω/km	266
Mutual capacitance at 800 Hz	nF/km	ca. 50
Impedance at 1 - 100 MHz	Ω	100 ± 15
Test voltage (1 min)	V	1000
Operating voltage (not for power purposes)	peak V	125



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f MHz	Attenuation (dB/10m)		NEXT (dB)	
	nom.	min. CAT.7	nom.	min. CAT.7
1	0,31	0,32	90	80
10	0,85	0,90	90	80
31,25	1,42	1,55	90	80
62,5	2,04	2,25	90	75
100	2,60	2,85	88	71
155	3,30	3,60	86	68
200	3,80	4,00	84	66
300	4,70	5,00	82	64
600	6,70	7,50	77	60

Signal speed

approx. 0.75c

Mechanical and thermal properties

Minimum bending radius	moved	mm	52
Permissible temperature range	fixed	°C	-30 up to +70
	moved	°C	0 up to +50
Flame retardant			according to IEC 60332-1