



<b>DATA SHEET</b>	<b>2170136</b>
<b>UNITRONIC® LAN UTP/S-H 200 MHz CAT. 5e 4 x 2 x AWG24</b>	valid from : <b>12.07.2006</b>

### Application

UNITRONIC® LAN UTP/S-H 200 MHz 4x2xAWG24 is a **halogen free** twisted pair (TP) **CATEGORY 5e high speed data transmission cable**, conforming to both EIA/TIA-568 TSB-36 requirements and to ISO/IEC 11801 „Generic Cabling for Customer Premises“ for CLASS D Links.

EIA	=	<b>ELECTRONIC INDUSTRIES ASSOCIATION</b>
TIA	=	<b>TELECOMMUNICATION INDUSTRIES ASSOCIATION</b>
TSB	=	<b>TECHNICAL SYSTEMS BULLETIN</b>
TPDDI	=	<b>TWISTED PAIR DISTRIBUTED DATA INTERFACE</b>
CDDI	=	<b>COPPER DISTRIBUTED DATA INTERFACE</b>

### Design

Conductor	Solid bare copper wire, 0.53 mm Ø (AWG24)
Insulation	PE (Polyethylene)
Stranding	Cores twisted to pairs, pairs twisted to cable core
Colour code	Pair 1 white/blue - blue Pair 2 white/orange - orange Pair 3 white/green - green Pair 4 white/brown - brown
Screening	Aluminium laminated plastic foil (UTP/S) with a drain wire 0.5 mmØ (AWG24)
Sheath	halogen free compound, grey, flame retardant, outer diameter approx. 6.1 mm

### Electrical properties at 20°C

DC resistance (loop)	max.Ω/km	190.0
Insulation resistance	min. GΩxkm	5
Mutual capacitance at 800 Hz	nom. nF/km	50
Impedance at 1.....100 MHz	Ω	100 ± 15



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f MHz	Attenuation (dB/100m)		NEXT (dB)		ACR (dB/100m)		ELFEXT (dB)		RL (dB)	
	nom.	max. CAT.5e	nom.	min. CAT.5e	nom.	min. CAT. 5e	nom.	min. CAT.5e	nom.	min. CAT.5e
1	1.9	2.1	68.3	65.3	66.4	63.2	64.8	64	21	20
4	3.9	4.1	59.3	56.3	55.4	52.2	52.8	52	24	23
10	6.3	6.5	53.3	50.3	47.0	43.8	44.8	44	26	25
16	8.1	8.3	50.3	47.3	42.2	39.0	41.0	40	26	25
20	9.1	9.3	48.3	45.3	39.2	36.0	39.0	38	26	25
31.25	11.3	11.7	45.9	42.9	34.6	31.2	35.0	34	24.6	23.6
62.5	16.5	17.0	41.4	38.4	24.9	21.3	29.2	28	22.5	21.5
100	21.0	22.0	38.3	35.3	17.3	13.3	25.3	24	21.1	20.1

### Mechanical and thermal characteristics

Minimum bending radius		mm	49
Permissible temperature range	moved	°C	- 5 to +50
	fixed	°C	up to 70
Fire load		kWh/m	0.15
Flame retardant			according to IEC 60332-1

Marking on the sheath:

LAPP KABEL STUTTGART **UNITRONIC® LAN UTP/S-H 200 MHz CAT.5e** 4 x 2 x AWG24  
ROHS ART.2170136