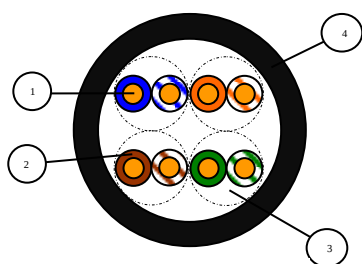


	DATA TRANSMISSION CABLES U/UTP cat. 5e (tested up to 200MHz) 4 x 2 x 24 AWG IEC 61156-5/ISO/IEC 11801, EN 50173-1, EIA/TIA 568C.2	824204207500** REVISION: 0
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CABLE DESCRIPTION – APPLICATIONS

Installation cables for structured horizontal cabling. These cables are ideal for LAN data transmission in all Ethernet (IEEE 802.3) applications up to 1000 Base-T.

CABLE DESIGN



Note: drawing is not to scale

1. **Conductor:** 100% copper solid wire.

2. **Insulation:** PE compound.

3. **Twisting:** 2 cores twisted in a pair.

4. **Outer jacket:** PE compound.

Cable type	Dimension	Sheath	Standard Sheath Colour ¹	Outer diameter ² (mm)	Cable weight ² (kg/km)
Outdoor	4 x 2 x 24 AWG	PE	Black	5.9	34

¹: available also in other colours if requested.

²: typical values.

OPERATING CONDITIONS			BASIC ELECTRICAL CHARACTERISTICS (20°C)	
Temperature range	Static	Dynamic	DC Conductor Resistance	≤ 88 Ohm/km
Outdoor	-30°C to +70°C	-10°C to +50°C	Insulation Resistance	≥ 5000 MΩ·Km / 500 VDC
			Mutual Capacitance	50±3 nF/km / 1.0 KHz
			Capacitance pair to ground	≤ 500 pF/km / 1.0 KHz
Bending radius	Static 4 x D	Dynamic 8 x D	Characteristic Impedance	100 ± 15% Ω / 100 MHz
			Velocity of Propagation	67% nom.
			Signal propagation time	<510ns/100m
			Delay difference	<20ns/100m
			Test voltage	700V(AC)

BASIC TRANSMISSION CHARACTERISTICS (20°C) (typical values)

Frequency MHz	Attenuation dB/100m		NEXT dB		ELFEXT dB		Return loss dB	
	Cat 5e max.	CABLEL	Cat 5e min.	CABLEL	Cat 5e max.	CABLEL	Cat 5e min.	CABLEL
1	2.1	1.9	65	73	64	72	20.0	28
4	4.1	3.8	56	65	52	60	23.0	30
10	6.5	6.0	50	60	44	55	25.0	30
16	8.3	7.7	47	58	40	50	25.0	32
31.25	11.7	10.9	43	52	34	44	23.6	30
62.5	17.0	15.7	38	49	28	41	21.5	28
100	22.0	19.8	35	42	24	36	20.1	25
155	-	25.8	-	39	-	29	-	22
200	-	29.4	-	37	-	25	-	22

IDENTIFICATION COLOUR CODING

Pair 1		Pair 2		Pair 3		Pair 4	
Blue	White\ Blue	Orange	White\ Orange	Green	White\ Green	Brown	White\ Brown

SHEATH MARKING

“CABLEL U/UTP 4x2x24 AWG Cat5e PE in accordance with ISO/IEC 11801 + IEC61156-5+TIA/EIA 568C.2 – Length m”.

PACKING

The cables are delivered in non-returnable carton boxes of 305m or on plywood bobbins of 500m or 1000m.

Any particular requirements about packing, drum marking, cable length per drum can be provided if requested.