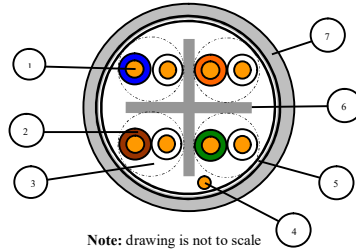


	DATA TRANSMISSION CABLES F/UTP cat.6 (tested up to 350MHz) 4 x 2 x 23 AWG IEC 61156-5, IEC 11801/ EN 50173-1, EIA/TIA 568C.2	828204290500** REVISION: 0
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CABLE DESCRIPTION – APPLICATIONS

Installation cables for structured horizontal cabling. These cables are ideal for LAN data transmission in all Ethernet (IEEE802.3) applications up to 1000Base-T. The foil screen prevents electromagnetic interference making them suitable for use in industrial environments.

CABLE DESIGN



- 1. Conductor:** 100% copper solid wire.
- 2. Insulation:** PE compound.
- 3. Twisting:** 2 cores twisted in a pair.
- 4. Earth wire:** tinned copper wire
- 5. Screen:** overlapped laminated aluminium foil
- 6. Separating cross element:** MDPE compound
- 7. Outer jacket:** PVC compound.

Cable type	Dimension	Sheath	Standard Sheath Color ¹	Outer diameter ² (mm)	Cable weight ² (kg/km)
Indoor	4 x 2 x 23 AWG	PVC	Grey	7.4	52

¹: available also in other colors if requested. ²: typical values.

OPERATING CONDITIONS			BASIC ELECTRICAL CHARACTERISTICS (20°C)	
Temperature range	Static	Dynamic	DC Conductor Resistance	≤ 80 Ohm/km
Indoor	-20°C to +60°C	0°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 / 1-100 MHz 100 ± 18% Ω / 100-250 MHz
Fire behaviour			Velocity of Propagation	74 % nom.
PVC	IEC 60332-1		Operating Voltage	100 V max.
			Dielectric Strength	1000 Volts / 1 minute DC
			Coupling attenuation	> 55 dB @ 30 – 250 MHz

BASIC TRANSMISSION CHARACTERISTICS (20°C) (typical values)								
Frequency MHz	Attenuation dB/100m		NEXT dB		ELFEXT dB		Return loss dB	
	Cat 6 max.	CABLEL	Cat 6 min.	CABLEL	Cat 6 min.	CABLEL	Cat 6 min.	CABLEL
1	2.1	1.9	75	90	68	86	20.0	30
4	3.8	3.6	66	79	56	79	23.0	29
10	6.0	5.6	60	76	48	76	25.0	33
16	7.6	7.0	57	72	44	68	25.0	30
31.25	10.7	9.9	53	67	38	64	23.6	29
62.5	15.5	14.0	48	63	32	58	21.5	27
100	19.9	17.8	45	62	28	52	20.1	26
250	33.0	28.4	39	57	20	49	17.3	25
300	-	31.2	-	51	-	44	-	30
350	-	35.3	-	46	-	41	-	25

IDENTIFICATION COLOUR CODING

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

SHEATH MARKING

"CABLEL F/UTP 4x2x23 AWG CAT6 PVC in accordance with ISO/IEC 11801 + IEC 61156-5 + TIA/EIA 568C.2 - Length m"

PACKING

The cables are delivered on plywood bobbins of 500m or 1000m.

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