

# TECHNICAL DATA SHEET

**PRO-ELEC**

## Category 5e U/UTP PVC and LSZH cables CB21173-1174

**RoHS  
Compliant**

Part Number	Description	Packaging
CB21173	CAT 5E UTP CABLE GREY 305M	305M/pull box
CB21174	CAT 5E UTP CABLE GREY 100M	100M/reel

ISO/IEC11801 Class D Permanent Link, ANSI/TIA/-568-C.2 Category 5E EC60332-1-2

Construction		
<b>Conductor</b>	Material	Solid Bare Copper
	Nom O.D. (mm):	0.48±0.005mm
<b>Insulation</b>	Material	HDPE
	Diameter:	0.85±0.02mm
	Colour	Pair 1: Blue and White/Blue
		Pair 2: Orange and White/Orange
Pair 3: Green and White/Green		
Pair 4: Brown and White/Brown		
<b>Rip cord:</b>		Yes
<b>Sheath</b>	Material	PVC
	Thickness	0.50±0.05 mm
	External O.D.	5.0±0.3 mm
	Colour:	Grey

### Characteristics at 20°C

<b>Sheath Physical Properties</b>	Before Aging	Tensile Strength (Mpa): ≥13.5
		Elongation (%): ≥150
	Aging Period (°C×hrs):	100°C×24h×7d
	After Aging	Tensile Strength (Mpa): ≥12.5
		Elongation (%): ≥125
	Cold bend (-20±2°C×4h)	No visible cracks
<b>Electrical Characteristics</b>	1.0-100.0MHz, impedance (Ω)	100±15
	1.0-100.0MHz, Delay Skew (ns/100m)	≤45
	DC Resistance (Ω/100m)	≤10.6



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Technical Performance (FLUKE Link 90m±3m):

Frequency	RL	ATT	NEXT	DELAY	PSNEXT	ELFEXT	PSELFEX
MHz	≥dB	≤dB	≥dB	≤ns	≥dB	≥dB	≥dTB
1	20.0	2.0	65.3	570.00	62.3	64.0	61.0
4	23.0	4.1	56.3	552.00	53.3	52.0	49.0
8	24.5	5.8	51.8	546.73	48.8	45.9	42.9
10	25.0	6.5	50.3	545.38	47.3	44.0	41.0
16	25.0	8.2	47.2	543.00	44.4	39.9	36.9
20	25.0	9.3	45.8	542.05	42.8	38.0	35.0
25	24.3	10.4	44.3	541.20	41.3	35.8	33.0
31.25	23.6	11.7	42.9	540.44	39.9	34.1	31.1
62.5	21.5	17.0	38.4	538.55	35.4	28.1	25.1
100	20.1	22.0	35.3	537.60	32.3	24.0	21.0

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