

TECHNICAL DATA SHEET

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CAT 6 UTP CABLE CB21176

**RoHS
Compliant**

Part Number	Description	Packaging
CB21176	CAT 6 UTP CABLE GREY 305M	305M pull box

ISO/IEC11801 Class E Permanent Link, ANSI/TIA/-568-C.2 Category 6 Permanent Link IEC60332-1-2

Construction		
Conductor	Material	Solid Bare Copper
	Nom O.D. (mm):	0.55±0.005mm
Insulation	Material	HDPE
	Diameter:	1.01±0.04mm
	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		
Rip cord:		Yes
Sheath	Material	PVC
	Thickness	0.55±0.05 mm
	External O.D.	6.3±0.3 mm
	Colour:	Grey

Characteristics at 20°C

Sheath Physical Properties	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
Electrical Characteristics	1.0-100.0MHz, impedance (Ω)	100±15
	1.0-100.0MHz, Delay Skew (ns/100m)	≤45
	DC Resistance (Ω/100m)	≤8.0



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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	≥dB
1	20.0	2.03	74.3	570.00	72.3	67.8	64.8
4	23.0	3.78	65.3	552.00	63.3	55.9	52.8
8	24.5	5.32	60.8	546.73	58.8	49.7	46.7
10	25.0	5.95	59.3	545.38	57.3	47.8	44.8
16	25.0	7.55	56.2	543.00	54.2	43.7	40.7
20	25.0	8.47	54.8	542.05	52.8	41.8	38.8
25	24.3	9.51	53.3	541.20	41.3	39.8	36.8
31.25	23.6	10.67	51.9	540.44	49.9	37.9	34.9
62.5	21.5	15.38	47.7	538.55	45.4	31.9	28.9
100	20.1	19.80	44.3	537.60	42.3	27.8	24.8
200	18.0	28.98	39.8	536.54	37.8	21.8	18.8
250	17.3	32.85	38.3	536.27	36.3	19.8	16.8

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