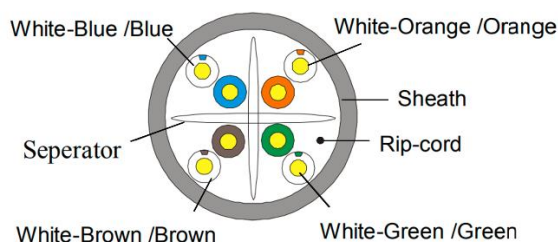


Application

Prose CAT6 UTP data cables are designed for unshielded cabling system. Prose Category 6 data cables meet and exceed the requirements of ANSI/TIA-568.2-D, UL444, EN 50173-2 and ISO/IEC11801-2, can support up to 500MHz. Prose provides different jacket material such as PVC, CM, CMR, CMP, LSZH for different applications.

Construction

- Construction: 4×2×AWG23
- Conductor: AWG 23 solid copper
- Insulation: HDPE
- Insulation Diameter: 1.02±0.05mm
- Core: 4 twist pairs
- Color Code: White&Blue/Blue, White&Orange/Orange, White&Green/Green, White&Brown/Brown
- Filling: “+” style
- Sheath: CMX, CM, CMR, CMP, LSZH
- Sheath Colour: Blue(PVC), Orange(LSZH), Grey, Purple, Red, White, etc, other colour is customized
- Normal Diameter: 6.2±0.4mm
- Weight: 12.7kg / 305m



Permanent Performance at 20°C

Frequency (MHz)	ATT (dB/100m)	NEXT (dB)	RL (dB)	PHASE DELAY(ns)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT (dB)
	Max.	Min.	Min.	Max.	Min.	Min.	Min.
1	2.03	74.3	20.0	570.00	72.3	67.8	64.8
4	3.78	65.3	23.0	552.00	63.6	55.8	52.8
8	5.32	60.8	24.5	546.73	58.8	49.7	46.7
10	5.95	59.3	25.0	545.38	57.3	47.8	44.8
16	7.55	56.2	25.0	543.00	54.2	43.7	40.7
20	8.47	54.8	25.0	542.05	52.8	41.8	38.8
25	9.51	53.3	24.3	541.20	51.3	39.8	36.8
31.25	10.67	51.9	23.6	540.44	49.9	37.9	34.9
62.5	15.38	47.7	21.5	538.55	45.4	31.9	28.9

100	19.80	44.3	20.1	537.60	42.3	27.8	24.8
200	28.98	39.8	18.0	536.54	37.8	21.8	18.8
250	32.85	38.3	17.3	536.27	36.3	19.8	16.8
350	39.79	36.1	16.3	535.92	34.1	16.9	13.9
450	46.01	34.5	15.5	535.70	32.5	14.7	11.7
500	48.94	33.8	15.2	535.60	31.8	13.8	10.8

Permanent Performance at 20°C

DC resistance	≤9.38Ω/100m
Unbalanced resistance	≤5%
Unbalance capacitance	≤330pF/100m
Capacitance	≤5.6nF/100m
Dielectric strength	DC 1KV (3s No Fail)
Insulation resistance	≥5000MΩ.Km
Impedance (1-250MHz)	100±15 Ω
Impedance (250-500MHz)	100±25 Ω
Delay Skew (1-250MHz)	≤45ns/100m
Delay Skew (250-500MHz)	≤45ns/100m
Propagation Delay	536.3ns/100m@250MHz 535.6ns/100m@500MHz

Mechanical Performance at 20°C

Bending radius	
During installation (min.)	8×outer diameter
Installed (min.)	4×outer diameter
Temperature range	
During installation	0°C to +50°C
Installed	-20°C to +60°C

Ordering Information

Product Series	Category	-	Structure	Sheath	Pairs	-	Application Environment	Length+ Package	Color
CC:Copper Cable	60:Cat6 23AWG		1:UTP Unshielded Twisted Pair 2:F/UTP Foil/Unshielded Twisted Pair 3:U/FTP	1:PVC CM 2:LSZH IEC60332-1 3:PVC CMR 4:PVC CMP 5:LSZH IEC60332-3-24 (3C)	1:Standard		1: indoor 2: outdoor	0:Custom length 1:305m/Box 2:500m/Reel 3:1000m/Reel 4:100m/Box	GY: Grey OR: Orange BL: Blue RD: Red GR: Green YL: Yellow

Cat6 UTP Data Cable

CC60-1X1-1XXX

PROSE

			Unshielded/Foil Twisted Pair 4:F/FTP Foil/Foil Twisted Pair 5:S/FTP Shielded/Foil Twisted Pair 6:SF/UTP	6:LSZH IEC60332-3- 22(3A) 7: PE 8: PVC 9: CMX				5: 305m Box with Reel 6: 305m/Reel	WH: White PL: Purple BK: Black
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For Example:

Order Number	Description
CC60-111-11BL	Cable, Cat6, UTP, 23AWG, PVC CM, Blue, 305m
CC60-121-11OR	Cable, Cat6, UTP, 23AWG, LSZH, Orange, 305m
CC60-181-11GY	Cable, Cat6 UTP,23AWG, PVC, Grey,305m
CC60-171-21BK	Cable, Cat6 UTP,23AWG, PE, Black,305m

[illegible]

Rev. 1.1 | 4 / 4