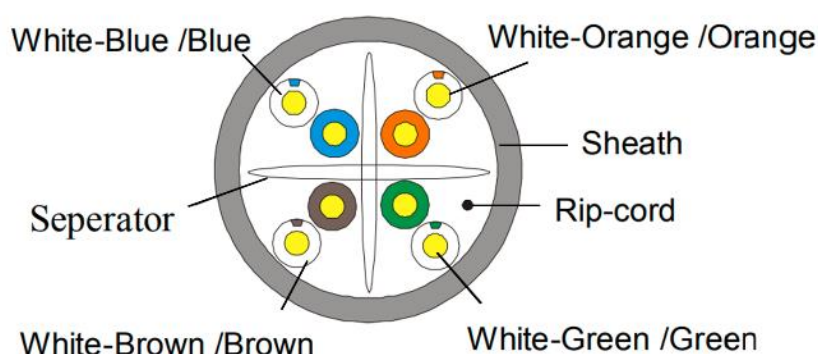


Application

Prose CAT6 UTP data cables are designed for unshielded cabling system. Prose Category 6 data cables meet and exceed the requirements of ISO/IEC 11801-1, IEC 60603-7, ANSI/TIA-586.2-D, can support up to 500MHz. Prose provides different jacket material such as PVC, CM, CMR, CMP, LSZH for different applications.

Structural Diagram



Construction

Construction	4×2×23AWG
Conductor O.D	0.565±0.005mm
Insulation Material	HDPE
Insulation Diameter	1.02±0.08mm(PVC), 1.02±0.05mm(CM), 0.99±0.08mm(LSZH)
Sheath Thickness	0.55±0.05 mm
Nominal diameter	6.2±0.4mm
Surface	Clean, Frap, Satiation
Sheath	PVC,CM,LSZH
Sheath Colour	Grey(PVC), Blue(PVC CM), Orange(LSZH), Purple, Red, White, etc, other colour is customized
Leight	305±1.5m

Permanent Performance at 20°C

Frequency (MHz)	RL (dB)	ATT (dB)	NEXT (dB)	Phase DELAY (ns)	PSNEXT (dB)	ELFEXT (dB)	PSACRF (dB)
	Min.	Max.	Min.	Max.	Min.	Min.	Min.
1.0	20.0	2.03	74.3	570.00	72.3	67.8	64.8

4.0	23.0	3.78	65.3	552.00	63.6	55.8	52.8
8.0	24.5	5.32	60.8	546.73	58.8	49.7	46.7
10.0	25.0	5.95	59.3	545.38	57.3	47.8	44.8
16.0	25.0	7.55	56.2	543.00	54.2	43.7	40.7
20.0	25.0	8.47	54.8	542.05	52.8	41.8	38.8
25.0	24.3	9.51	53.3	541.20	51.3	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	47.4	538.55	45.4	31.9	28.9
100.0	20.1	19.80	44.3	537.60	42.3	27.8	24.8
200.0	18.0	28.98	39.8	536.54	37.8	21.8	18.8
250.0	17.3	32.85	38.3	536.27	36.3	19.8	16.8
350.0	16.3	39.79	36.1	535.92	34.1	16.9	13.9
450.0	15.5	46.01	34.5	535.70	32.5	14.7	11.7
500.0	15.2	48.94	33.8	535.60	31.8	13.8	10.8

Permanent Performance at 20°C

Before Aging Tensile Strength	≥13.5 Mpa(PVC,CM), ≥10Mpa(LSZH)
Before Aging Elongation	≥150%(PVC,CM), ≥125%(LSZH)
Aging Period	100°C×24h×7d
After Aging Tensile Strength	≥12.5 Mpa(PVC,CM), ≥8.0 Mpa(LSZH)
After Aging Elongation	≥125%(PVC,CM), ≥100% (LSZH)
Cold bend(-20±2°C×4h)	8×Cable O.D., No visible cracks
Impedance	100±15Ω (1-250MHZ)
Delay skew	≤45ns (1-250MHZ)
DC resistance	≤9.38Ω/100m
Unbalanced resistance	≤5%
Unbalance capacitance	≤330pF/100m
Capacitance	≤5.4nF/100m
Dielectric strength	DC 1kv (3s No Fail)
Insulation resistance	≥5000MΩ·km

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 Unshielded/Foil Twisted Pair 4:F/FTP Foil/Foil Twisted Pair 5:S/FTP Shielded/Foil Twisted Pair 6:SF/UTP	1:PVC CM 2:LSZH IEC60332-1 3:PVC CMR 4:PVC CMP 5:LSZH IEC60332-3-24 (3C) 6:LSZH IEC60332-3-22(3A) 7: PE 8: PVC 9: CMX	1:Standard		1: indoor 2: outdoor	0:Custom length 1:305m/Box 2:500m/Reel 3:1000m/Reel 4:100m/Box 5: 305m Box with Reel 6: 305m/Reel	GY: Grey OR: Orange BL: Blue RD: Red GR: Green YL: Yellow WH: White PL: Purple BK: Black

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
CC60-181-11OR	Cable, Cat6 UTP,23AWG, PVC, Orange,305m
CC60-171-26BK	Cable, Cat6 UTP,23AWG, PE, Black,305m/Reel

Rev. 1.3 | 4 / 4