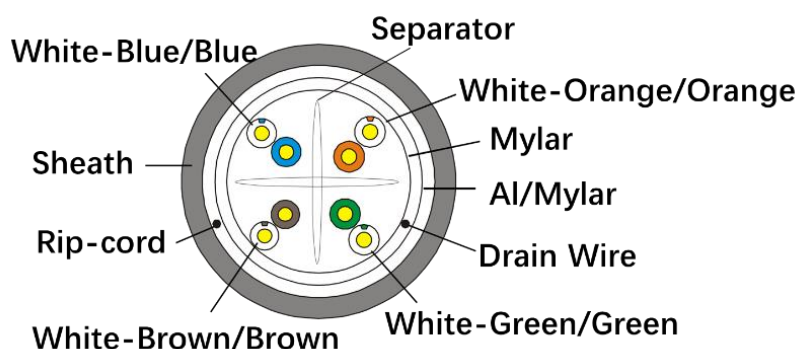


Applications

Prose indoor CAT6 SF/UTP cables are designed for shielded structured cabling system. Prose Category 6 indoor cables meet and exceed the requirements of ISO/IEC11801、ANSI/TIA-568.2-D. Prose provides different jacket materials including PVC, CM, CMR, CMP and LSZH for different applications.

Structural Diagram



Construction

Construction	4×2×23AWG
Conductor O.D	0.565±0.005mm
Insulation Material	HDPE
Insulation Diameter	1.12±0.05mm(PVC,CM), 1.12±0.08mm(LSZH)
Sheath Thickness	0.55±0.05 mm
Nominal diameter	7.8±0.4 mm
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)	PSELFET (dB)
	Min.	Max.	Min.	Max.	Min.	Min.	Min.
1.0	20.0	-	74.3	570.00	72.3	67.8	64.8

4.0	23.0	3.78	65.3	552.00	63.3	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	47.7	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	32.95	38.3	536.27	36.3	19.8	16.8

Other 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

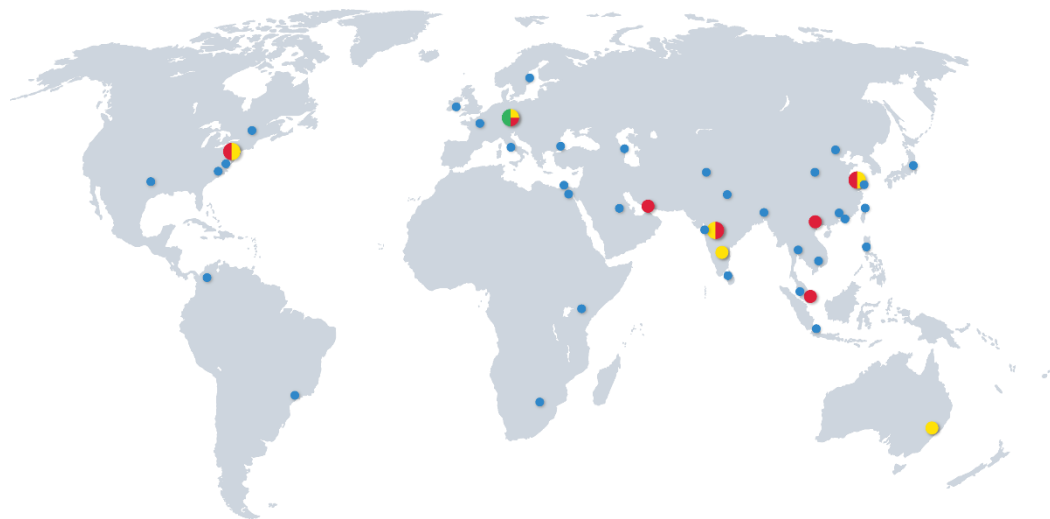
Ordering Information

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

GLOBAL FOOTPRINT



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