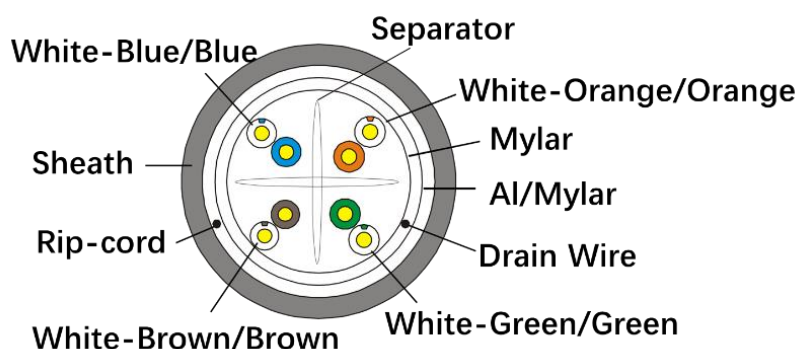


Applications

Prose indoor CAT6A F/UTP cables are designed for shielded structured cabling system. Prose Category 6A indoor cables meet and exceed the requirements of ISO/IEC11801、TIA-568-C.2. 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	PE
Insulation Diameter	1.12±0.1mm
Sheath Thickness	0.55±0.05 mm
Nominal diameter	7.4±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)	PSACRF (dB)
	Min.	Max.	Min.	Max.	Min.	Min.	Min.
1.0	20.0	-	74.3	570.00	72.3	68.0	65.0

4.0	23.0	3.8	65.3	552.00	63.3	56.0	53.0
8.0	24.5	5.3	60.8	546.73	58.8	49.9	46.9
10.0	25.0	5.9	59.3	545.38	57.3	48.0	45.0
16.0	25.0	7.5	56.2	543.00	54.2	43.9	40.9
20.0	25.0	8.4	54.8	542.05	52.8	42.0	39.0
25.0	24.3	9.4	53.3	541.20	51.3	40.0	37.0
31.25	23.6	10.5	51.9	540.44	49.9	38.1	35.1
62.5	21.5	15.0	47.4	538.55	45.4	32.1	29.1
100.0	20.1	19.1	44.3	537.60	42.3	28.0	25.0
200.0	18.0	27.6	39.8	536.5	37.8	22.0	19.0
250.0	17.3	31.1	38.3	536.3	36.3	20.0	17.0
300.0	16.8	34.3	37.1	536.1	35.1	18.5	15.5
500.0	15.2	45.3	33.8	535.6	31.8	14.0	11.0

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), 100±22Ω (250-500MHZ)
Delay skew	≤45ns (1-500MHZ)
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

Cat6A F/UTP Data Cable

CC6A-2X1-1XXX

PROSE

Temperature range	
During installation	0°C to +50°C
Installed	-20°C to +60°C

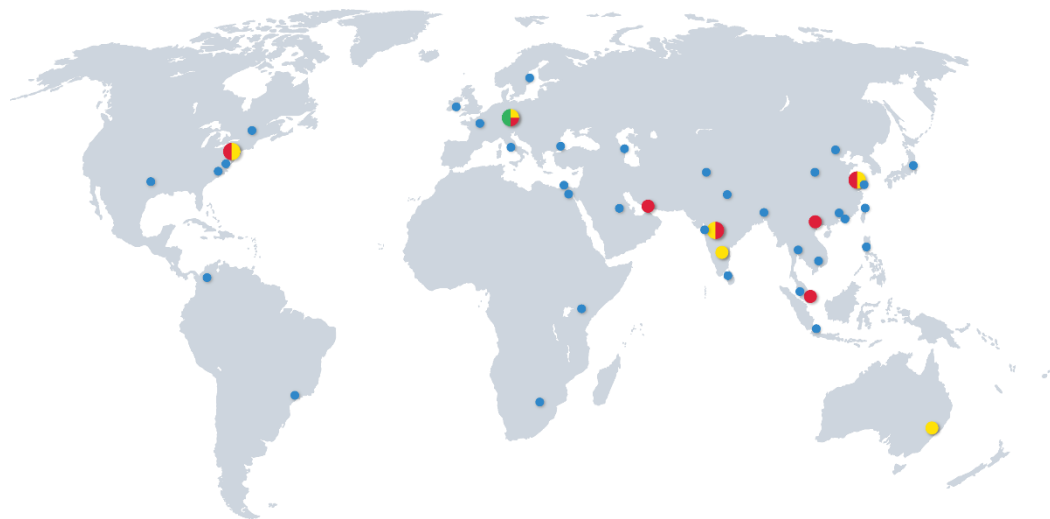
Ordering Information

Product Series	Category	-	Structure	Sheath	Pairs	-	Application Environment	Length+ Package	Color
CC: Copper Cable	6A: Cat6A	-	2:F/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	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

For Example:

Order Number	Description
CC6A-211-16BL	Cable, Cat6A, F/UTP, 23AWG, PVC CM, Blue, 305m/Reel
CC6A-221-16OR	Cable, Cat6A, F/UTP, 23AWG, LSZH, Orange, 305m/Reel
CC6A-231-16BL	Cable, Cat6A, F/UTP, 23AWG, CMR, Blue, 305m/Reel
CC6A-241-16BL	Cable, Cat6A, F/UTP, 23AWG, CMP, Blue, 305m/Reel
CC6A-281-16BL	Cable, Cat6A, F/UTP, 23AWG, PVC, Blue, 305m/Reel

GLOBAL FOOTPRINT



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