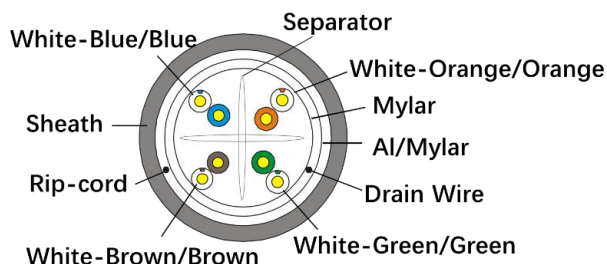


Applications

Prose indoor CAT6A F/UTP cables are designed for shielded structured cabling system. Prose Category 6A indoor cables meet and exceed the requirements of ANSI/TIA-568.2-D, UL444 and ISO/IEC11801 2nd. Prose provides different jacket materials including PVC, CM, CMR, CMP and LSZH for different applications.

Construction

- Construction: $4 \times 2 \times \text{AWG}23$
- Conductor: AWG 23 solid copper
- Insulation: HDPE
- Insulation Diameter: $1.12 \pm 0.05\text{mm}$ / $1.16 \pm 0.05\text{mm}$
- Core: 4 twist pairs
- Color Code: White&Blue/Blue, White&Orange/Orange, White&Green/Green, White&Brown/Brown
- Tape: PET
- Screen : AL+PET tape
- Filler: “+” type
- Sheath: PVC, LSZH, CM, CMR, CMP
- Colour: Blue(PVC), Orange(LSZH), other colour is customized
- Normal Diameter: 7.4mm
- Weight: 16.5kg/305m



Permanent Performance at 20°C

Frequency (MHz)	ATT (dB/100m)	NEXT (dB)	RL (dB)	PSNEXT (dB)	ACRF (dB)	PSACRF (dB)
	Max.	Min.	Min.	Min.	Min.	Min.
1	2.0	74.3	20.0	72.3	67.8	64.8
4	3.8	65.3	23.0	63.3	55.8	52.8
8	5.3	60.8	24.5	58.8	49.7	46.7
10	6.0	59.3	25.0	57.3	47.8	44.8
16	7.6	56.2	25.0	54.2	43.7	40.7
20	8.5	54.8	25.0	52.8	41.8	38.8
25	9.5	53.3	24.3	51.3	39.8	36.8
31.25	10.7	51.9	23.6	49.9	37.9	34.9
62.5	15.4	47.4	21.5	45.4	31.9	28.9

100	19.8	44.3	20.1	42.3	27.8	24.8
200	29.0	39.8	18.0	37.8	21.8	18.8
250	32.8	38.3	17.3	36.3	19.8	16.8
300	35.0	37.5	17.0	35.5	19.2	15.5
600	53.1	33.0	15.0	32.5	11.0	9.5

Other Performance at 20°C

DC resistance	≤9.50ohm/100m
Unbalanced resistance	≤5%
Unbalance capacitance	≤330pF/100m
Capacitance	≤5.6nF/100m
Dielectric strength	DC 1kv (3s No Fail)
Insulation resistance	≥5000Mohm.Km
Impedance Delay skew	1-250MHZ (100±15) ohm
	250-600MHZ (100±25) ohm
	≤45ns

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	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

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