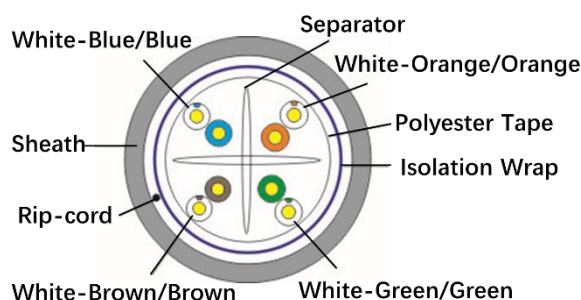


Application

PROSE indoor CAT6A UTP cable are designed for unshielded cabling system. PROSE Category 6A cables meet and exceed the requirements of ISO/IEC11801, ANSI/TIA-568-C.2. PROSE provides different jacket material including CMX, CM, CMR, CMP, LSZH for different applications.

Structural Diagram



Construction

Construction	4×2×23AWG
Conductor O.D	0.565±0.01mm(PVC,CM), 0.565±0.005mm(LSZH)
Insulation 1 Material	PE
Insulation 1 Diameter	1.10±0.08mm(PVC, LSZH), 1.12±0.05mm(CM)
Insulation 2 Material	PE
Insulation 2 Diameter	1.20±0.08mm(PVC, LSZH), 1.16±0.08mm(CM)
Sheath Thickness	0.50±0.05 mm
Nominal diameter	7.3±0.5 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)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT (dB)	PSANEXT (dB)	PSAACRF (dB)
	Min.	Max.	Min.	Min.	Min.	Min.	Min.	Min.
1.0	20.0	-	74.3	72.3	67.8	64.8	67.0	67.0

4.0	23.0	3.8	65.3	63.3	55.8	52.8	67.0	66.2
8.0	24.5	5.3	60.8	58.8	49.7	46.7	67.0	60.1
10.0	25.0	5.9	59.3	57.3	47.8	44.8	67.0	58.2
16.0	25.0	7.5	56.2	54.2	43.7	40.7	67.0	54.1
20.0	25.0	8.4	54.8	52.8	41.8	38.8	67.0	52.2
25.0	24.3	9.4	53.3	51.3	39.8	36.8	67.0	50.2
31.25	23.6	10.5	51.9	49.9	37.9	34.9	67.0	48.3
62.5	21.5	15.0	47.4	45.4	31.9	28.9	65.6	42.3
100.0	20.1	19.1	44.3	42.3	27.8	24.8	62.5	38.2
200	18.0	27.6	39.8	37.8	21.8	18.8	58.0	32.2
250	17.3	31.1	38.3	36.3	19.8	16.8	56.5	30.2
300	16.8	34.3	37.1	35.1	18.3	15.3	55.3	28.7
400	15.9	40.1	35.3	33.3	15.8	12.8	53.5	26.2
500	15.2	45.3	33.8	31.8	13.8	10.8	52.0	24.2

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

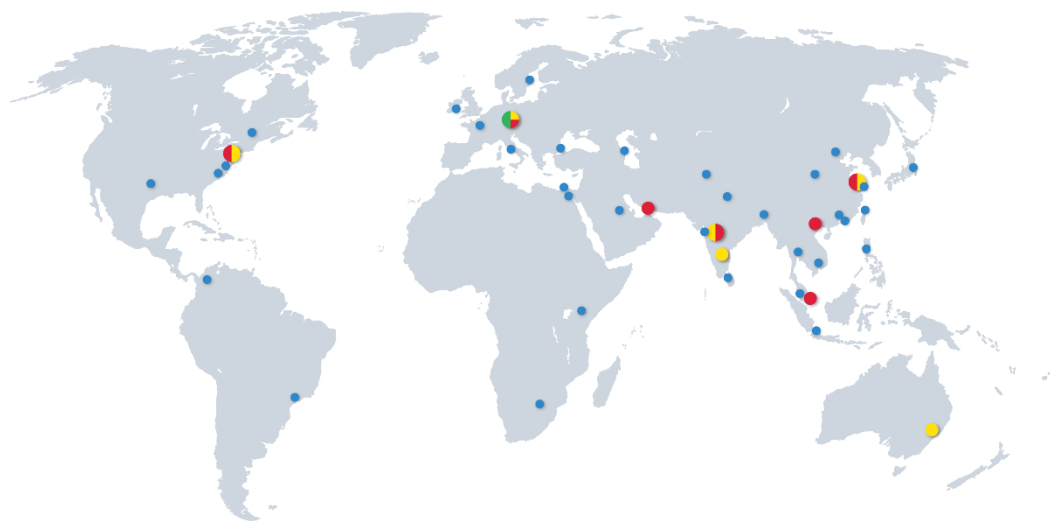
Ordering Information

Product Series	Category	-	Structure	Sheath	Pairs	-	Application Environment	Length+ Package	Color
CC: Copper Cable	6A:Cat6A 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
CC6A-111-16BL	Cable, Cat6A, UTP, 23AWG, PVC CM, Blue, 305m/Reel
CC6A-121-16OR	Cable, Cat6A, UTP, 23AWG, LSZH, Orange, 305m/Reel
CC6A-181-16GY	Cable, Cat6A, UTP, 23AWG, PVC, Grey, 305m/Reel

GLOBAL FOOTPRINT



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