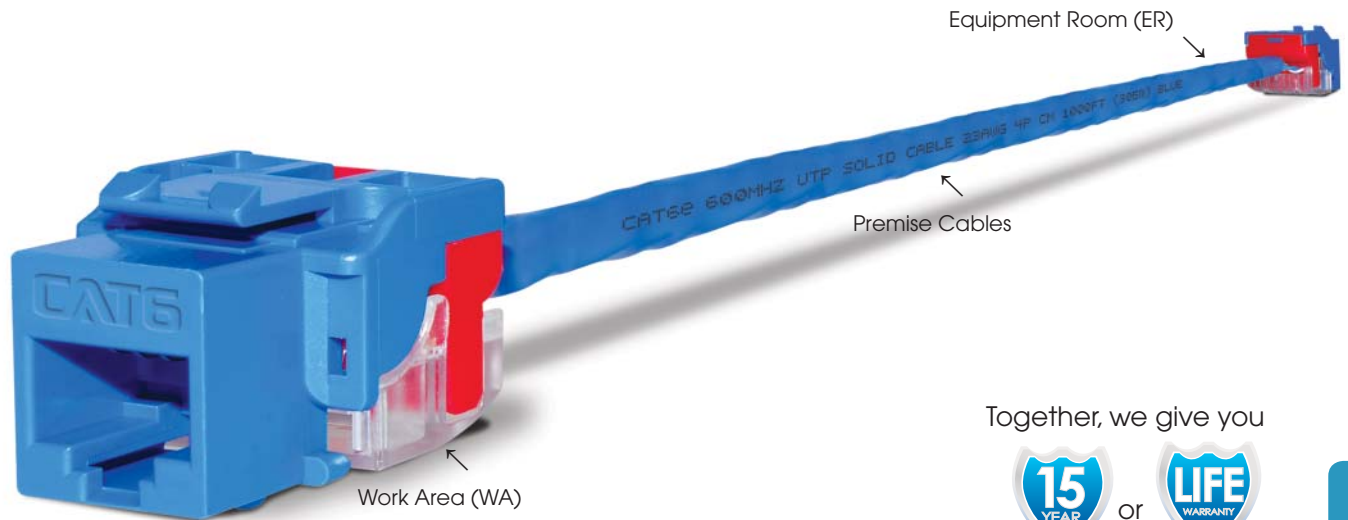


# End-to-End, We've Got You Covered!

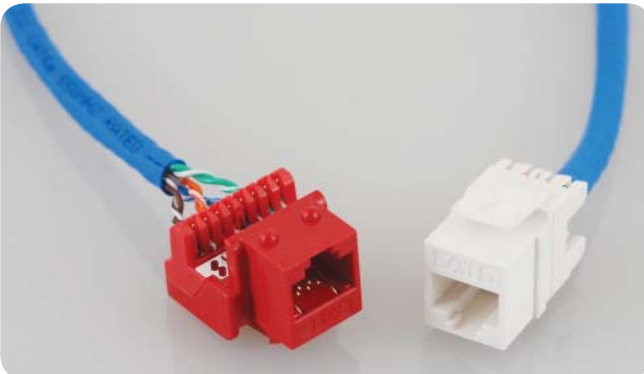
ICC offers CAT 6A, 6e and 5e premise cables to provide complete end-to-end structured cabling solutions. By installing ICC premise cables, you can experience the same reliability and value in CAT 6A, 6e, and 5e cable that you've enjoyed with ICC's line of connectivity products. Best of all, ICC offers 15-Year and Lifetime warranties for guaranteed performance.



Together, we give you



of worry free installations.



## Modular Connectors

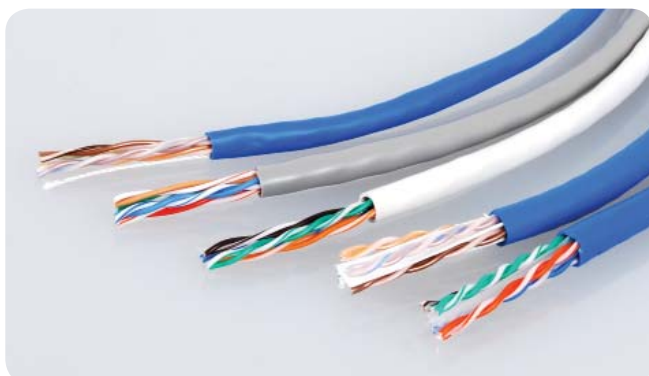
ICC offers two style of modular connectors, easy (EZ) and high density (HD). ICC's EZ style connectors are the easiest to install in the industry. What makes them EZ is their single-row IDC. You don't have to split pairs; simply lay down the wires, pair by pair.

ICC's HD modular connectors are engineered with rear slim line split-back IDC for minimizing spacing between ports. They are perfect for high density applications where more port connectivity is required.



## Patch Panels

To compliment ICC's modular connectors, ICC offers two styles of patch panels, 110-Type IDC and Configurable. Patch panels with IDC termination blocks are designed for single-row pair wiring making them fast and easy to install. Configurable style patch panels are designed to accept high performance HD modular connectors for greater bandwidth headroom.



## Premise Cables

ICC offers CAT 6A, CAT 6e, and CAT 5e UTP and FTP premise cables. They are 100% tested and verified to exceed TIA 568 industry performance standards. They are also ETL verified and UL listed to ensure the highest quality. ICC's premise cables are available in CMR 'riser' and CMP 'plenum' types in 1000 feet dispensing cartons/reels.

## UTP vs. FTP

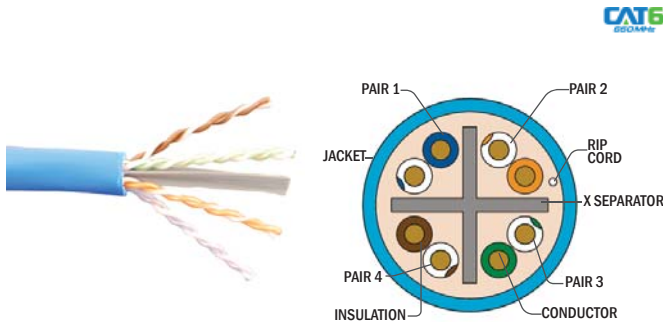
The type of twisted-pair cabling chosen makes a difference in how well a network functions. Electromagnetic and radio waves emitted by electronics or heavy machinery can affect the performance of signals traveling through network.

- As a general rule, use FTP cabling in environments with high electromagnetic interference (EMI) or radio frequency interference (RFI)
- In electrically quiet environments, opt for UTP cable
- UTP cable offers cost savings over FTP cable due to the extra manufacturing process that is required for interference protection in a FTP cable

## CMP vs. CMR

Building codes require fire rated cabling to provide protection for occupants in the event of a fire. Fire rated cabling requirements strive to reduce the toxicity of fumes emitted by cabling when burned.

- Riser-rated cable (CMR) is typically for general use in vertical spaces
- Plenum rated cable (CMP) is typically used in air circulation spaces
- Always check with your local, state, and federal laws for fire code compliance

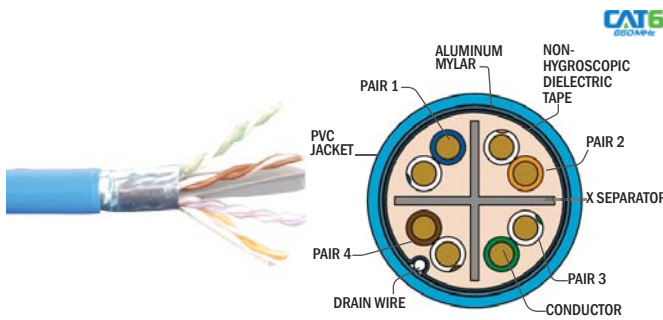


## CAT 6A 650 MHz 10G UTP | Premise Cables

Product #	Description
ICCABP6ABL	4-Pair, 23 AWG, UTP, Solid Copper Cable, CMP, Blue
ICCABR6ABL	4-Pair, 23 AWG, UTP, Solid Copper Cable, CMR, Blue

- Exceeds ANSI/TIA-568 Category 6A standard
- Center separator reduces crosstalk
- Rip cord provides easier jacket removal
- Sequential footage markings on the outer jacket
- Standard Packaging: 1000 feet per reel (305 meters)
- Nominal Velocity of Propagation (NVP) 65% CMR and 67% CMP

<sup>1</sup>xx denotes color = BL-Blue

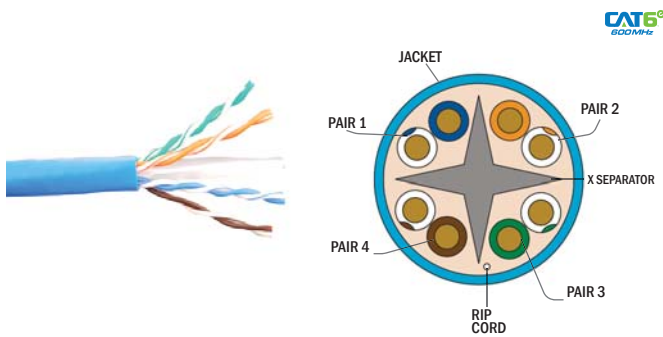


## CAT 6A 650 MHz 10G FTP | Premise Cables

Product #	Description
ICCABP6FBL	4-Pair, 23 AWG, FTP, Solid Copper Cable, CMP, Blue
ICCABR6FBL	4-Pair, 23 AWG, FTP, Solid Copper Cable, CMR, Blue

- Exceeds ANSI/TIA-568 Category 6A standard
- Center separator reduces crosstalk
- Shielded jacket provides protection against EMI and RFI noise
- Sequential footage markings on the outer jacket
- Standard Packaging: 1000 feet per reel (305 meters)
- Nominal Velocity of Propagation (NVP) 65% CMR and 70% CMP

<sup>1</sup>xx denotes color = BL-Blue

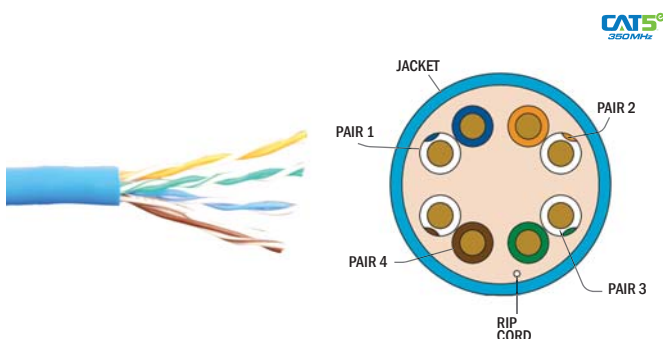


## CAT 6e 600 MHz UTP | Premise Cables

Product #	Description
ICCABP6Exx <sup>1</sup>	4-Pair, 23 AWG, UTP, Solid Copper Cable, CMP
ICCABR6Exx <sup>2</sup>	4-Pair, 23 AWG, UTP, Solid Copper Cable, CMR

- Exceeds ANSI/TIA-568 Category 6 standard
- Center separator reduces crosstalk
- Rip cord provides easier jacket removal
- Sequential footage markings on the outer jacket
- Standard Packaging: 1000 feet per EZ Pull Carton (305 meters)
- Nominal Velocity of Propagation (NVP) 68% CMR and 70% CMP

<sup>1</sup>xx denotes color = BL-Blue, GY-Gray, WH-White, YL-Yellow  
<sup>2</sup>xx denotes color = BL-Blue, GY-Gray, WH-White, YL-Yellow



## CAT 5e 350 MHz UTP | Premise Cables

Product #	Description
ICCABP5Exx <sup>1</sup>	4-Pair, 24 AWG, UTP, Solid Copper Cable, CMP
ICCABR5Exx <sup>1</sup>	4-Pair, 24 AWG, UTP, Solid Copper Cable, CMR

- Exceeds ANSI/TIA-568 Category 5e standard
- Rip cord provides easier jacket removal
- Sequential footage markings on the outer jacket
- Standard Packaging: 1000 feet per EZ Pull Carton (305 meters)
- Nominal Velocity of Propagation (NVP) 68% CMR and 72% CMP

<sup>1</sup>xx denotes color = BL-Blue, GY-Gray, WH-White

## Graph Explanation

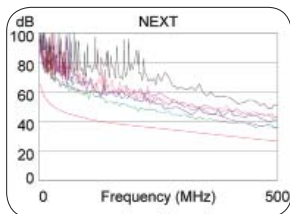
These graphs below show Near-End Crosstalk (NEXT) between two pairs of wire which measures unwanted signal transmitted from one pair to another pair on the near end of a UTP or FTP cable.

- Listed below are channel-rated performance test results for ICC's CAT 6A, CAT 6e, CAT 5e cables
- ICC's UTP and FTP cables provide superior performance, reliability, and exceeds TIA standard

## Chart Explanation

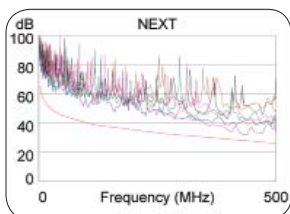
These charts below show frequency electrical performance values and are provided for reference only.

- Actual compliance testing is based on swept frequency measurements
- The specification values are based on TIA-568 standard
- Values are expressed in dB per 100M (328 Ft.)



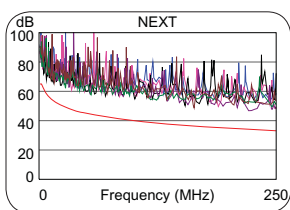
CAT 6A UTP

FREQUENCY (MHz)	1.0	8.0	10.0	16.0	25.0	62.5	100.0	200.0	250.0	350.0	500.0	600.0	650.0
ATTENUATION (max)	2.1	5.3	5.9	7.5	9.4	15.0	19.1	27.6	31.1	37.2	45.3	50.1	52.3
RETURN LOSS (min)	20.0	26.3	27.0	27.0	26.3	23.5	22.1	20.0	19.3	18.3	17.5	16.9	16.7
NEXT (min)	78.3	64.8	63.3	60.2	57.3	51.4	43.3	43.8	42.3	40.1	37.8	36.6	36.1
PS NEXT (min)	76.3	62.8	61.3	58.2	55.3	49.4	46.3	41.8	40.3	38.1	35.8	34.6	34.1
ACRF (min)	71.8	53.7	51.8	47.7	43.8	35.9	31.8	25.8	23.8	20.9	17.8	-	-
PS ACRF (min)	68.8	50.7	48.8	44.7	40.8	32.9	28.8	22.8	20.8	17.9	14.8	-	-
PS ANEXT (min)	67.0	67.0	67.0	67.0	67.0	65.6	62.5	58.0	56.5	54.3	52.0	-	-
PS AACRF (min)	67.0	60.1	58.2	54.1	50.2	42.3	38.2	32.2	30.2	27.3	24.2	-	-



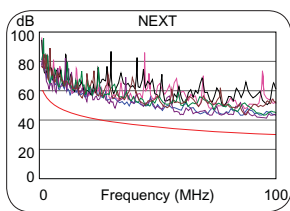
CAT 6A FTP

FREQUENCY (MHz)	1.0	8.0	10.0	16.0	25.0	62.5	100.0	200.0	250.0	350.0	500.0	600.0	650.0
ATTENUATION (max)	2.0	5.2	5.9	7.4	9.3	14.9	19.0	27.5	31.0	37.2	45.3	50.1	52.4
RETURN LOSS (min)	20.0	26.3	27.0	27.0	26.3	23.5	22.1	20.0	19.3	18.3	17.5	16.9	16.7
NEXT (min)	74.3	59.8	59.3	56.2	53.3	47.4	44.3	39.8	38.3	36.1	33.8	32.6	32.1
PS NEXT (min)	72.3	58.8	57.3	54.2	51.3	45.4	42.3	37.8	36.3	34.1	31.8	30.6	30.1
ACRF (min)	71.8	53.7	51.8	47.7	43.8	35.9	31.8	25.8	23.8	20.9	17.8	-	-
PS ACRF (min)	68.8	50.7	48.8	44.7	40.8	32.9	28.8	22.8	20.8	17.9	14.8	-	-
PS ANEXT (min)	77.0	77.0	77.0	77.0	77.0	76.6	72.5	68.0	66.5	64.3	62.0	-	-
PS AACRF (min)	77.0	70.1	68.2	64.1	60.2	52.3	48.2	42.2	40.2	37.3	34.2	-	-



CAT 6e

FREQUENCY (MHz)	1.0	8.0	10.0	16.0	25.0	62.5	100.0	200.0	250.0	350.0	500.0	600.0	650.0
ATTENUATION (max)	2.0	-	5.9	7.4	-	14.9	19.1	27.7	31.2	37.5	45.8	50.7	-
RETURN LOSS (min)	21.0	-	25.5	26.0	-	26.0	22.5	19.8	19.0	17.8	16.2	15.7	-
NEXT (min)	82.3	-	67.3	64.2	-	55.4	52.3	47.8	46.3	45.7	44.8	44.2	-
PS NEXT (min)	80.3	-	65.3	62.2	-	53.4	50.3	45.8	44.3	43.7	42.8	42.2	-
ACR (min)	80.3	-	61.4	56.8	-	40.4	33.2	20.1	15.1	8.2	0.0	-	-
PS ACR (min)	78.3	-	59.4	54.8	-	38.4	31.2	18.1	13.1	6.2	-	-	-
ACRF (min)	73.8	-	53.8	49.7	-	37.9	33.9	27.8	25.8	22.9	19.8	18.2	-
PS ACRF (min)	71.8	-	51.8	47.7	-	35.9	31.8	25.8	23.8	20.9	17.8	16.2	-



CAT 5e

FREQUENCY (MHz)	1.0	8.0	10.0	16.0	25.0	62.5	100.0	200.0	250.0	350.0	500.0	600.0	650.0
ATTENUATION (max)	2.0	5.6	6.3	8.0	10.0	16.0	20.5	29.5	33.2	39.7	-	-	-
RETURN LOSS (min)	21.0	25.5	26.0	26.0	25.3	22.5	21.1	19.0	18.3	17.3	-	-	-
NEXT (min)	70.3	56.8	55.3	52.2	49.3	43.4	40.3	35.8	34.3	32.1	-	-	-
PS NEXT (min)	68.3	54.8	53.3	50.2	47.3	41.4	38.3	33.8	32.3	30.1	-	-	-
ACR (min)	68.3	51.1	49.0	42.2	39.3	27.3	19.8	6.3	1.2	-	-	-	-
PS ACR (min)	66.3	49.1	47.0	42.2	37.3	25.3	17.8	4.3	0	-	-	-	-
ACRF (min)	67.8	49.7	47.8	43.7	39.8	31.9	27.8	21.8	19.8	16.9	-	-	-
PS ACRF (min)	64.8	46.7	44.8	40.7	36.8	28.9	24.8	18.8	16.8	13.9	-	-	-