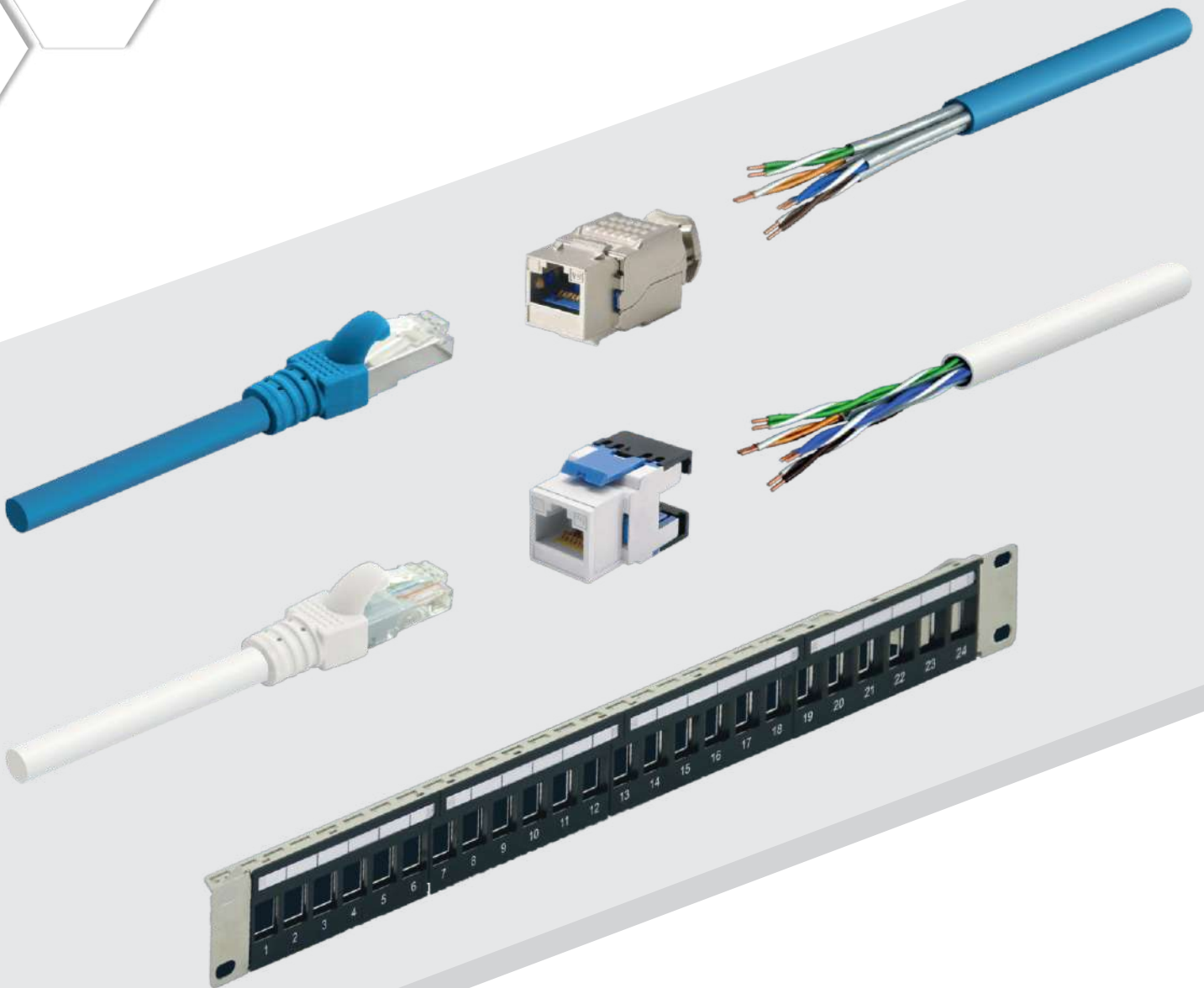




XTND
CONNECT



DATA CENTER COPPER NETWORKS



■ ABOUT US

At XTND Connect, we are a leading provider of cutting-edge solutions in the field of fiber optics, networking equipment, IT/telecom racks and cabinets, cable pulling equipment, structured cabling products and accessories, and media converters. With a strong commitment to innovation, quality, and customer satisfaction, we have established ourselves as a trusted partner for businesses seeking reliable and efficient infrastructure solutions



Our Expertise

Whether you require high-speed fiber optic solutions, robust networking equipment, or reliable cabling products, we have the knowledge and resources to deliver exceptional results.



Quality and Reliability

We conduct rigorous quality checks and tests on all our products to guarantee their durability and reliability in demanding environments



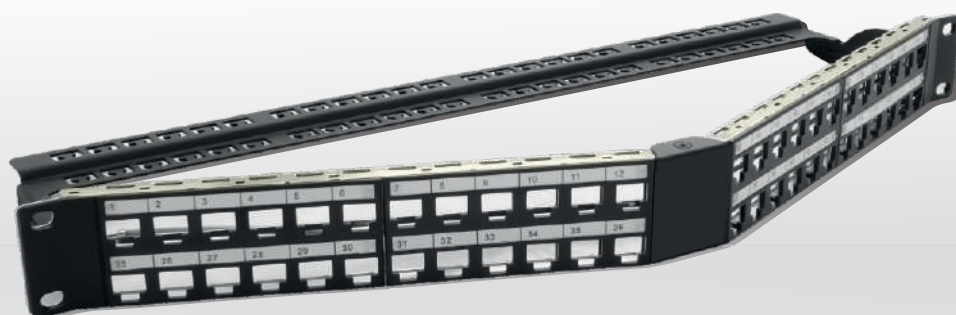
Customer-Centric Approach

Our knowledgeable sales and support teams are always available to assist you in selecting the right products, answering your queries, and offering technical guidance at every step of the way.



Sustainability and Responsibility

Our knowledgeable sales and support teams are always available to assist you in selecting the right products, answering your queries, and offering technical guidance at every step of the way.



Data Center Copper Networks

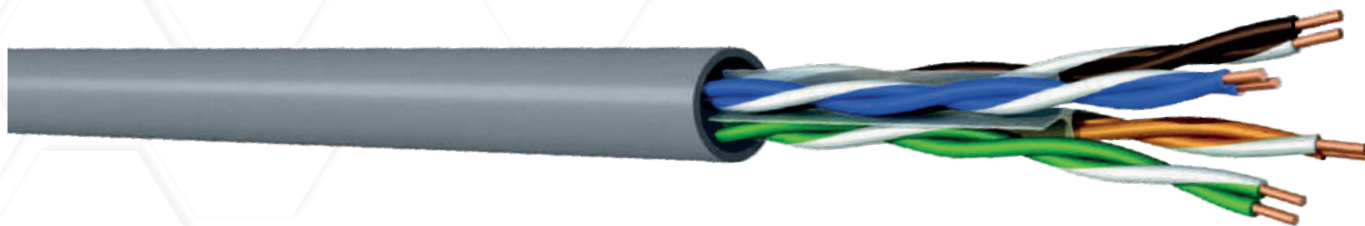
XTND copper system solutions allow operators to utilise the full capacity and transmission distance of their copper infrastructure without compromising flexibility and handling.

Built from high quality and proven components, the Category 6/Class E and Category 6A/Class EA system solutions operate to 250 and 500 MHz respectively, with overcapacity built into selected components for enhanced longevity and upgrade-ability.

Each component is compliant to the relevant component standards, and when installed in combination, provides link and channel performance which exceeds the ISO/IEC, EN and TIA link and channel standards.

Category 6/Class E and 6A/Class EA products with performance margins that exceed the relevant international standards. This optimised headroom is guaranteed to support all applications according to the international standards and for the lifetime of the data center. Upgraded cable options are also available.

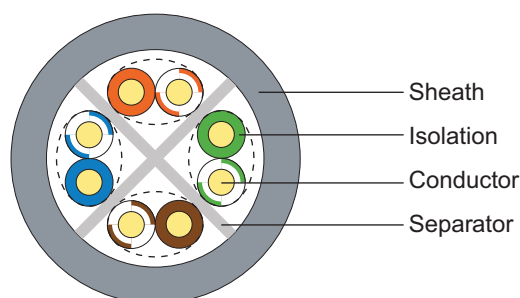
Category 6 U/UTP 23AWG 400MHz LSZH Data Cable | Dca



Category 6 class cables are designed for analog and digital signal transmission in voice, video and data applications in supported data communication systems up to 250 MHz. Cables meet the requirements of structural cabling standards including ANSI EIA/TIA 568, ISO/IEC 11801 and EN 50173 Class E. Foam-skin insulation technology is used on the pairs.

Compliant Standards

ANSI TIA/EIA 568.2-D
ISO/IEC 11801 2nd ed., IEC 61156-5
EN 50173-1, EN 50288-6-1



Applications

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T
IEEE 802.5 16 MB; ISDN; TPDDI; ATM
Power over Ethernet (PoE) / PoE+



EU Declaration

LVD:	Low Voltage Directive	2014/35/EU
RoHS:	Restriction of Hazardous Substances Directive	2011/65/EU

Flame Resistance

Flame Performance	Flame Retardancy	EN 60332-1-2
	Smoke Performance	EN 61034-2
	Halogen Acidity	EN 60754-1/2
Euro-class	Dca - s2, d2, a1	EN 13501-6:2018

Cable Construction

Conductor	Bare copper wire 23 AWG
Insulation	Polyolefin
Outer cable diameter	6.0 mm
App. Cable Weight	40 kg/km
Outer Sheath	LSZH - Low Smoke Zero Halogen
Color (standard)	Grey RAL 7001, Blue RAL 5015, Red RAL 3017

Mechanical Properties

Min. Bending Radius	Installation:	8 x D
	Operation:	4 x D
Temperature Range	Installation:	0°C up to + 50°C
	Operation:	-20°C up to + 60°C
Tensile Strength	100 N	max.
Crush Resistance	1000 N/dm	min.
Impact Resistance	10 Impact	

Electrical Properties

Conductor Resistance	85.0 Ω/km	max.
Resistance Unbalance	2%	max.
Insulation Resistance	5000 MΩ x m	min.
Capacity	50 pF/m	nom.
Capacity Unbalance	1600 pF/km	max.
Characteristic Impedance	100±5 Ohm	@ 100 MHz
Nominal Velocity of Propagation	67-69%	
Propagation Delay	537 ns/100m	max.
Delay Skew	45 ns/100m	max.
Test Voltage	1000 V	

Transmission Properties

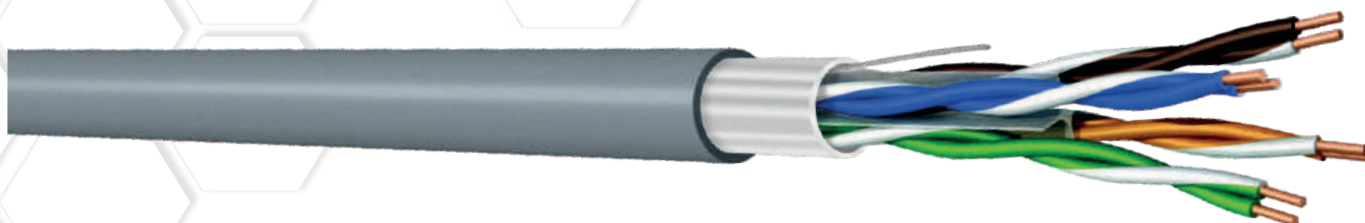
Frequency (MHz)	Attenuation (dB/100m)		NEXT (dB)		PS-NEXT (dB)		ACR (dB/100m)		PS-ACR (dB/100m)		ACR-F (dB/100m)		PS-ACR-F (dB/100m)		Return Loss (dB)	
	max.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.
1.00	2.1	1.9	66.0	82.0	64.0	79.0	63.9	80.0	61.9	77.0	66.0	85.0	64.0	82.0	20.0	26.0
4.00	3.8	3.8	65.3	76.0	63.3	73.0	61.4	72.0	59.4	69.0	58.0	77.0	55.0	74.0	23.0	31.0
10.00	6.0	5.9	59.3	70.0	57.3	67.0	53.3	64.0	51.3	61.0	50.0	68.0	47.0	64.0	25.0	32.0
16.00	7.6	7.4	56.2	65.0	54.2	62.0	48.6	58.0	46.6	55.0	45.9	63.0	42.9	60.0	25.0	34.0
31.25	10.7	10.5	51.9	60.0	49.9	57.0	41.1	49.0	39.1	46.0	40.1	51.0	37.1	48.0	23.6	36.0
62.50	15.5	15.1	47.4	58.0	45.4	55.0	31.9	43.0	29.9	40.0	34.1	44.0	31.1	41.0	21.5	32.0
100.00	19.9	19.0	44.3	52.0	42.3	49.0	24.4	33.0	22.4	30.0	30.0	35.0	27.0	32.0	20.1	32.0
250.00	33.0	31.0	38.3	48.0	36.3	45.0	5.3	17.0	3.3	14.0	22.0	19.0	19.0	16.0	17.3	30.0
300.00	-	36.0	-	43.0	-	40.0	-	13.0	-	10.0	-	14.0	-	11.0	-	28.0
400.00	-	41.6	-	40.0	-	37.0	-	8.0	-	5.0	-	8.0	-	5.0	-	26.0

Ordering Code

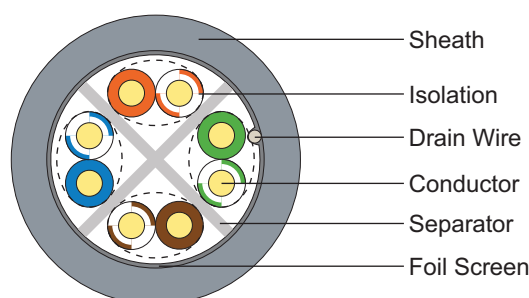
C06-UUTP-SLD-GY-DCA-500M

Category 6 U/UTP Cable, Solid 23 AWG, Grey, CPR: Dca, 500 Meters

Category 6 F/UTP 23AWG 400MHz LSZH Data Cable | Dca



Category 6 class cables are designed for analog and digital signal transmission in voice, video and data applications in supported data communication systems up to 250 MHz. Cables meet the requirements of structural cabling standards including ANSI EIA/TIA 568, ISO/IEC 11801 and EN 50173 Class E. Foam-skin insulation technology is used on the pairs.



Compliant Standards

ANSI TIA/EIA 568.2-D
ISO/IEC 11801 2nd ed., IEC 61156-5
EN 50173-1, EN 50288-5-1

Applications

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T
IEEE 802.5 16 MB; ISDN; TPDDI; ATM
Power over Ethernet (PoE) / PoE+

EU Declaration

LVD:	Low Voltage Directive	2014/35/EU
RoHS:	Restriction of Hazardous Substances Directive	2011/65/EU



Flame Resistance

Flame Performance	Flame Retardancy	EN 60332-1-2
	Smoke Performance	EN 61034-2
	Halogen Acidity	EN 60754-1/2
Euro-class	Dca - s2, d2, a1	EN 13501-6:2018

Cable Construction

Conductor	Bare copper wire 23 AWG
Insulation	Polyolefin
Outer cable diameter	7.2 mm
App. Cable Weight	55 kg/km
Outer Sheath	LSZH - Low Smoke Zero Halogen
Color (standard)	Grey RAL 7001

Mechanical Properties

Min. Bending Radius	Installation:	8 x D
	Operation:	4 x D
Temperature Range	Installation:	0°C up to + 50°C
	Operation:	-20°C up to + 60°C
Tensile Strength	100 N	max.
Crush Resistance	1000 N/dm	min.
Impact Resistance	10 Impact	

Electrical Properties

Conductor Resistance	85.0 Ω/km	max.
Resistance Unbalance	2%	max.
Insulation Resistance	5000 MΩ x m	min.
Capacity	50 pF/m	nom.
Capacity Unbalance	1600 pF/km	max.
Characteristic Impedance	100±5 Ohm	@ 100 MHz
Nominal Velocity of Propagation	67-69%	
Propagation Delay	537 ns/100m	max.
Delay Skew	45 ns/100m	max.
Test Voltage	1000 V	

Transmission Properties

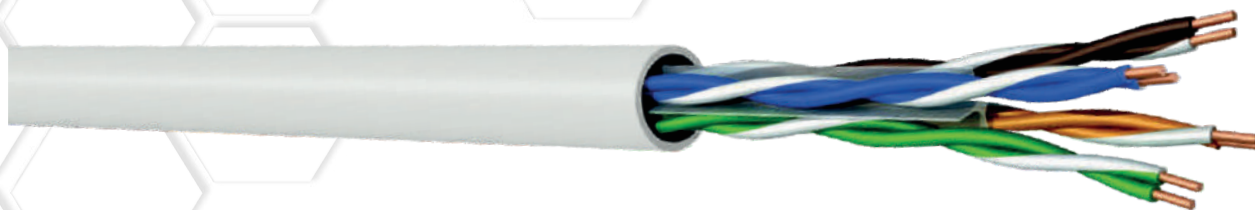
Frequency (MHz)	Attenuation (dB/100m)		NEXT (dB)		PS-NEXT (dB)		ACR (dB/100m)		PS-ACR (dB/100m)		ACR-F (dB/100m)		PS-ACR-F (dB/100m)		Return Loss (dB)	
	max.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.
1.00	2.1	1.9	66.0	82.0	64.0	79.0	63.9	80.0	61.9	77.0	66.0	85.0	64.0	82.0	20.0	26.0
4.00	3.8	3.8	65.3	76.0	63.3	73.0	61.4	72.0	59.4	69.0	58.0	77.0	55.0	74.0	23.0	31.0
10.00	6.0	5.9	59.3	70.0	57.3	67.0	53.3	64.0	51.3	61.0	50.0	68.0	47.0	64.0	25.0	32.0
16.00	7.6	7.4	56.2	65.0	54.2	62.0	48.6	58.0	46.6	55.0	45.9	63.0	42.9	60.0	25.0	34.0
31.25	10.7	10.5	51.9	60.0	49.9	57.0	41.1	49.0	39.1	46.0	40.1	51.0	37.1	48.0	23.6	36.0
62.50	15.5	15.1	47.4	58.0	45.4	55.0	31.9	43.0	29.9	40.0	34.1	44.0	31.1	41.0	21.5	32.0
100.00	19.9	19.0	44.3	52.0	42.3	49.0	24.4	33.0	22.4	30.0	30.0	35.0	27.0	32.0	20.1	32.0
250.00	33.0	31.0	38.3	48.0	36.3	45.0	5.3	17.0	3.3	14.0	22.0	19.0	19.0	16.0	17.3	30.0
300.00	-	36.0	-	43.0	-	40.0	-	13.0	-	10.0	-	14.0	-	11.0	-	28.0
400.00	-	41.6	-	40.0	-	37.0	-	8.0	-	5.0	-	8.0	-	5.0	-	26.0

Ordering Code

C06-FUTP-SLD-GY-DCA-500M

Category 6 F/UTP Cable, Solid 23 AWG, Grey, CPR: Dca, 500 Meters

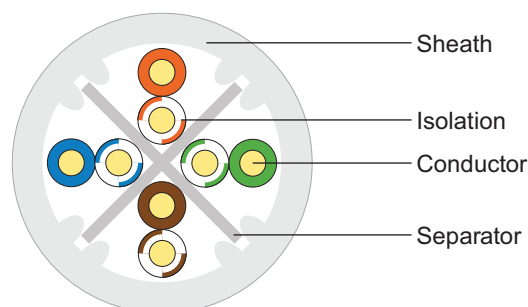
Category 6A U/UTP 23AWG 500MHz LSZH Data Cable | Dca



Category 6A class cables are designed for analog and digital signal transmission in voice, video and data applications in supported data communication systems up to 500 MHz. Cables meet the requirements of structural cabling standards including ANSI EIA/TIA 568, ISO/IEC 11801 and EN 50173 Class EA. Foam-skin insulation technology is used on the pairs.

Compliant Standards

ANSI TIA/EIA 568.2-D
ISO/IEC 11801 2nd ed., IEC 61156-5
EN 50173-1, EN 50288-11-1



Applications

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
IEEE 802.5 16 MB; ISDN; TPDDI; ATM
Power over Ethernet (PoE) / PoE+



EU Declaration

LVD:	Low Voltage Directive	2014/35/EU
RoHS:	Restriction of Hazardous Substances Directive	2011/65/EU

Flame Resistance

Flame Performance	Flame Retardancy	EN 60332-1-2
	Smoke Performance	EN 61034-2
	Halogen Acidity	EN 60754-1/2
Euro-class	Dca - s2, d2, a1	EN 13501-6:2018

Cable Construction

Conductor	Bare copper wire 23 AWG
Insulation	Polyolefin
Outer cable diameter	8.3 mm
App. Cable Weight	60 kg/km
Outer Sheath	LSZH - Low Smoke Zero Halogen
Color (standard)	White RAL 9003

Mechanical Properties

Min. Bending Radius	Installation:	8 x D
	Operation:	4 x D
Temperature Range	Installation:	0°C up to + 50°C
	Operation:	-20°C up to + 60°C
Tensile Strength	100 N	max.
Crush Resistance	1000 N/dm	min.
Impact Resistance	10 Impact	

Electrical Properties

Conductor Resistance	74.0 Ω/km	max.
Resistance Unbalance	2%	max.
Insulation Resistance	5000 MΩ x m	min.
Capacity	48 pF/m	nom.
Capacity Unbalance	1600 pF/km	max.
Characteristic Impedance	100±5 Ohm	@ 100 MHz
Nominal Velocity of Propagation	67-69%	
Propagation Delay	537 ns/100m	max.
Delay Skew	45 ns/100m	max.
Test Voltage	1000 V	

Transmission Properties

Frequency (MHz)	Attenuation (dB/100m)		NEXT (dB)		PS-NEXT (dB)		ACR (dB/100m)		PS-ACR (dB/100m)		ACR-F (dB/100m)		PS-ACR-F (dB/100m)		Return Loss (dB)	
	max.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.
1.00	2.1	1.9	75.3	95.0	72.3	92.0	73.2	93.0	70.2	90.0	68.0	100.0	65.0	97.0	20.0	26.0
4.00	3.8	3.5	66.3	95.0	63.3	92.0	62.5	91.0	59.5	88.0	56.0	100.0	53.0	97.0	23.0	27.0
10.00	5.9	5.6	60.3	95.0	57.3	92.0	54.4	89.0	51.4	86.0	48.0	92.0	45.0	89.0	25.0	30.0
16.00	7.5	6.9	57.2	95.0	54.2	92.0	49.8	88.0	46.8	85.0	43.9	88.0	40.9	85.0	25.7	30.0
31.25	10.5	9.8	52.9	95.0	49.9	92.0	42.4	85.0	39.4	82.0	38.1	82.0	35.1	79.0	23.6	30.0
62.50	15.0	14.1	48.4	95.0	45.4	92.0	33.4	81.0	30.4	78.0	32.1	76.0	29.1	73.0	21.5	30.0
100.00	19.1	17.7	45.3	95.0	42.3	92.0	26.2	77.0	23.2	74.0	28.0	72.0	25.0	69.0	20.1	30.0
250.00	31.1	29.5	39.3	85.0	36.3	82.0	8.3	55.0	5.3	52.0	20.0	64.0	17.0	61.0	17.3	24.0
400.00	40.1	38.8	36.3	80.0	33.3	77.0	-3.8	41.0	-6.8	38.0	16.0	57.0	13.0	54.0	15.9	23.0
500.00	45.3	43.5	34.8	75.0	31.8	72.0	-10.4	31.0	-13.4	28.0	14.0	55.0	11.0	52.0	15.2	22.0

Ordering Code

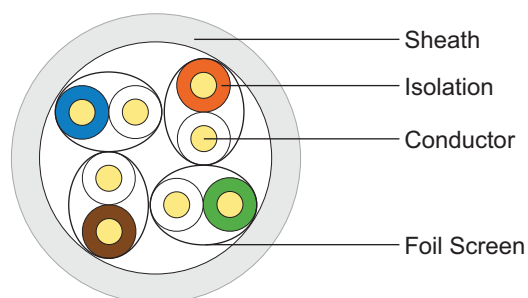
C6A-UUTP-SLD-WH-500M

Category 6A U/UTP Cable, Solid 23 AWG, White, 500 Meters

Category 6A U/UTP PiMF 23AWG 500MHz LSZH Data Cable | Dca



Category 6A class cables are designed for analog and digital signal transmission in voice, video and data applications in supported data communication systems up to 500 MHz. Cables meet the requirements of structural cabling standards including ANSI EIA/TIA 568, ISO/IEC 11801 and EN 50173 Class EA. Foam-skin insulation technology is used on the pairs.



Compliant Standards

ANSI TIA/EIA 568.2-D
ISO/IEC 11801 2nd ed., IEC 61156-5
EN 50173-1, EN 50288-10-1

Applications

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
IEEE 802.5 16 MB; ISDN; TPDDI; ATM
Power over Ethernet (PoE) / PoE+

EU Declaration

LVD:	Low Voltage Directive	2014/35/EU
RoHS:	Restriction of Hazardous Substances Directive	2011/65/EU



Flame Resistance

Flame Performance	Flame Retardancy	EN 60332-1-2
	Smoke Performance	EN 61034-2
	Halogen Acidity	EN 60754-1/2
Euro-class	Dca - s2, d2, a1	EN 13501-6:2018

Cable Construction

Conductor	Bare copper wire 23 AWG
Insulation	Polyolefin
Outer cable diameter	7.0 mm
App. Cable Weight	50 kg/km
Outer Sheath	LSZH - Low Smoke Zero Halogen
Color (standard)	White RAL 9003

Mechanical Properties

Min. Bending Radius	Installation:	8 x D
	Operation:	4 x D
Temperature Range	Installation:	0°C up to + 50°C
	Operation:	-20°C up to + 60°C
Tensile Strength	110 N	max.
Crush Resistance	1000 N/dm	min.
Impact Resistance	10 Impact	

Electrical Properties

Conductor Resistance	75.0 Ω/km	max.
Resistance Unbalance	2%	max.
Insulation Resistance	5000 MΩ x m	min.
Capacity	42 pF/m	nom.
Capacity Unbalance	1600 pF/km	max.
Characteristic Impedance	100±5 Ohm	@ 100 MHz
Nominal Velocity of Propagation	78-80%	
Propagation Delay	430 ns/100m	max.
Delay Skew	25 ns/100m	max.
Test Voltage	1000 V	

Transmission Properties

Frequency (MHz)	Attenuation (dB/100m)		NEXT (dB)		PS-NEXT (dB)		ACR (dB/100m)		PS-ACR (dB/100m)		ACR-F (dB/100m)		PS-ACR-F (dB/100m)		Return Loss (dB)	
	max.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.
1.00	2.1	1.9	75.3	95.0	72.3	92.0	73.2	93.0	70.2	90.0	68.0	100.0	65.0	97.0	20.0	26.0
4.00	3.8	3.5	66.3	95.0	63.3	92.0	62.5	91.0	59.5	88.0	56.0	100.0	53.0	97.0	23.0	27.0
10.00	5.9	5.6	60.3	95.0	57.3	92.0	54.4	89.0	51.4	86.0	48.0	92.0	45.0	89.0	25.0	30.0
16.00	7.5	6.9	57.2	95.0	54.2	92.0	49.8	88.0	46.8	85.0	43.9	88.0	40.9	85.0	25.7	30.0
31.25	10.5	9.8	52.9	95.0	49.9	92.0	42.4	85.0	39.4	82.0	38.1	82.0	35.1	79.0	23.6	30.0
62.50	15.0	14.1	48.4	95.0	45.4	92.0	33.4	81.0	30.4	78.0	32.1	76.0	29.1	73.0	21.5	30.0
100.00	19.1	17.7	45.3	95.0	42.3	92.0	26.2	77.0	23.2	74.0	28.0	72.0	25.0	69.0	20.1	30.0
250.00	31.1	29.5	39.3	85.0	36.3	82.0	8.3	55.0	5.3	52.0	20.0	64.0	17.0	61.0	17.3	24.0
400.00	40.1	38.8	36.3	80.0	33.3	77.0	-3.8	41.0	-6.8	38.0	16.0	57.0	13.0	54.0	15.9	23.0
500.00	45.3	43.5	34.8	75.0	31.8	72.0	-10.4	31.0	-13.4	28.0	14.0	55.0	11.0	52.0	15.2	22.0

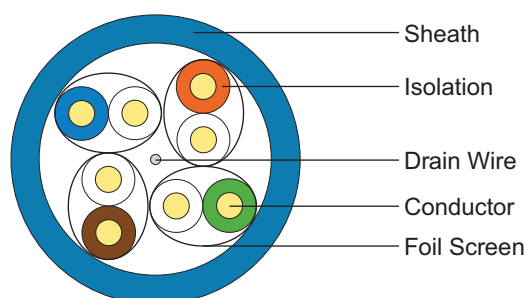
Ordering Code

C6A-UUTP-PIMF-SLD-WH-500M	Category 6A U/UTP Cable, Solid 23 AWG, PiMF, White, 500 Meters
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Category 6A U/FTP 23AWG 500MHz LSZH Data Cable | Dca



Category 6A class cables are designed for analog and digital signal transmission in voice, video and data applications in supported data communication systems up to 500 MHz. Cables meet the requirements of structural cabling standards including ANSI EIA/TIA 568, ISO/IEC 11801 and EN 50173 Class EA. Foam-skin insulation technology is used on the pairs.



Compliant Standards

ANSI TIA/EIA 568.2-D
ISO/IEC 11801 2nd ed., IEC 61156-5
EN 50173-1, EN 50288-10-1

Applications

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
IEEE 802.5 16 MB; ISDN; TPDDI; ATM
Power over Ethernet (PoE) / PoE+

EU Declaration

LVD:	Low Voltage Directive	2014/35/EU
RoHS:	Restriction of Hazardous Substances Directive	2011/65/EU



Flame Resistance

Flame Performance	Flame Retardancy	EN 60332-1-2
	Smoke Performance	EN 61034-2
	Halogen Acidity	EN 60754-1/2
Euro-class	Dca - s2, d2, a1	EN 13501-6:2018

Cable Construction

Conductor	Bare copper wire 23 AWG
Insulation	Polyolefin
Outer cable diameter	7.0 mm
App. Cable Weight	50 kg/km
Outer Sheath	LSZH - Low Smoke Zero Halogen
Color (standard)	Blue RAL 5015

Mechanical Properties

Min. Bending Radius	Installation:	8 x D
	Operation:	4 x D
Temperature Range	Installation:	0°C up to + 50°C
	Operation:	-20°C up to + 60°C
Tensile Strength	110 N	max.
Crush Resistance	1000 N/dm	min.
Impact Resistance	10 Impact	

Electrical Properties

Conductor Resistance	75.0 Ω/km	max.
Resistance Unbalance	2%	max.
Insulation Resistance	5000 MΩ x m	min.
Capacity	42 pF/m	nom.
Capacity Unbalance	1600 pF/km	max.
Characteristic Impedance	100±5 Ohm	@ 100 MHz
Nominal Velocity of Propagation	78-80%	
Propagation Delay	430 ns/100m	max.
Delay Skew	25 ns/100m	max.
Test Voltage	1000 V	

Transmission Properties

Frequency (MHz)	Attenuation (dB/100m)		NEXT (dB)		PS-NEXT (dB)		ACR (dB/100m)		PS-ACR (dB/100m)		ACR-F (dB/100m)		PS-ACR-F (dB/100m)		Return Loss (dB)	
	max.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.
1.00	2.1	1.9	75.3	95.0	72.3	92.0	73.2	93.0	70.2	90.0	68.0	100.0	65.0	97.0	20.0	26.0
4.00	3.8	3.5	66.3	95.0	63.3	92.0	62.5	91.0	59.5	88.0	56.0	100.0	53.0	97.0	23.0	27.0
10.00	5.9	5.6	60.3	95.0	57.3	92.0	54.4	89.0	51.4	86.0	48.0	92.0	45.0	89.0	25.0	30.0
16.00	7.5	6.9	57.2	95.0	54.2	92.0	49.8	88.0	46.8	85.0	43.9	88.0	40.9	85.0	25.7	30.0
31.25	10.5	9.8	52.9	95.0	49.9	92.0	42.4	85.0	39.4	82.0	38.1	82.0	35.1	79.0	23.6	30.0
62.50	15.0	14.1	48.4	95.0	45.4	92.0	33.4	81.0	30.4	78.0	32.1	76.0	29.1	73.0	21.5	30.0
100.00	19.1	17.7	45.3	95.0	42.3	92.0	26.2	77.0	23.2	74.0	28.0	72.0	25.0	69.0	20.1	30.0
250.00	31.1	29.5	39.3	85.0	36.3	82.0	8.3	55.0	5.3	52.0	20.0	64.0	17.0	61.0	17.3	24.0
400.00	40.1	38.8	36.3	80.0	33.3	77.0	-3.8	41.0	-6.8	38.0	16.0	57.0	13.0	54.0	15.9	23.0
500.00	45.3	43.5	34.8	75.0	31.8	72.0	-10.4	31.0	-13.4	28.0	14.0	55.0	11.0	52.0	15.2	22.0

Ordering Code

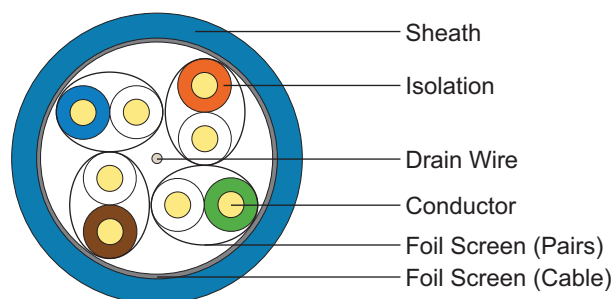
C6A-UFTP-SLD-BU-DCA-500M

Category 6A U/FTP Cable, Solid 23 AWG, Blue, CPR: Dca, 500 Meters

Category 6A F/FTP 23AWG 500MHz LSZH Data Cable | Dca



Category 6A class cables are designed for analog and digital signal transmission in voice, video and data applications in supported data communication systems up to 500 MHz. Cables meet the requirements of structural cabling standards including ANSI EIA/TIA 568, ISO/IEC 11801 and EN 50173 Class EA. Foam-skin insulation technology is used on the pairs.



Compliant Standards

ANSI TIA/EIA 568.2-D
ISO/IEC 11801 2nd ed., IEC 61156-5
EN 50173-1, EN 50288-10-1

Applications

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
IEEE 802.5 16 MB; ISDN; TPDDI; ATM
Power over Ethernet (PoE) / PoE+

EU Declaration

LVD:	Low Voltage Directive	2014/35/EU
RoHS:	Restriction of Hazardous Substances Directive	2011/65/EU



Flame Resistance

Flame Performance	Flame Retardancy	EN 60332-1-2
	Smoke Performance	EN 61034-2
	Halogen Acidity	EN 60754-1/2
Euro-class	Dca - s2, d2, a1	EN 13501-6:2018

Cable Construction

Conductor	Bare copper wire 23 AWG
Insulation	Polyolefin
Outer cable diameter	7.0 mm
App. Cable Weight	51 kg/km
Outer Sheath	LSZH - Low Smoke Zero Halogen
Color (standard)	Blue RAL 5015

Mechanical Properties

Min. Bending Radius	Installation:	8 x D
	Operation:	4 x D
Temperature Range	Installation:	0°C up to + 50°C
	Operation:	-20°C up to + 60°C
Tensile Strength	110 N	max.
Crush Resistance	1000 N/dm	min.
Impact Resistance	10 Impact	

Electrical Properties

Conductor Resistance	75.0 Ω/km	max.
Resistance Unbalance	2%	max.
Insulation Resistance	5000 MΩ x m	min.
Capacity	42 pF/m	nom.
Capacity Unbalance	1600 pF/km	max.
Characteristic Impedance	100±5 Ohm	@ 100 MHz
Nominal Velocity of Propagation	78-80%	
Propagation Delay	430 ns/100m	max.
Delay Skew	25 ns/100m	max.
Test Voltage	1000 V	

Transmission Properties

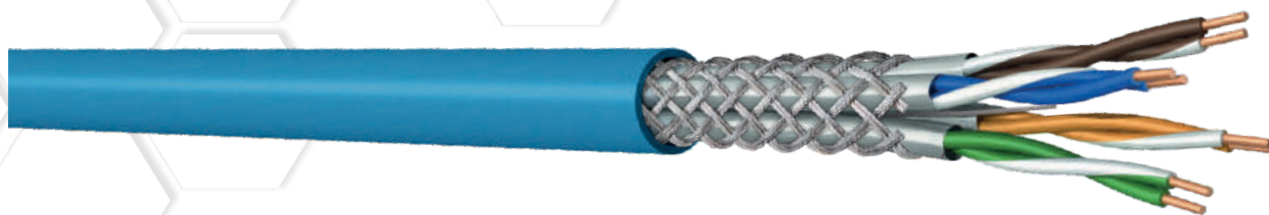
Frequency (MHz)	Attenuation (dB/100m)		NEXT (dB)		PS-NEXT (dB)		ACR (dB/100m)		PS-ACR (dB/100m)		ACR-F (dB/100m)		PS-ACR-F (dB/100m)		Return Loss (dB)	
	max.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.
1.00	2.1	1.9	75.3	95.0	72.3	92.0	73.2	93.0	70.2	90.0	68.0	100.0	65.0	97.0	20.0	26.0
4.00	3.8	3.5	66.3	95.0	63.3	92.0	62.5	91.0	59.5	88.0	56.0	100.0	53.0	97.0	23.0	27.0
10.00	5.9	5.6	60.3	95.0	57.3	92.0	54.4	89.0	51.4	86.0	48.0	92.0	45.0	89.0	25.0	30.0
16.00	7.5	6.9	57.2	95.0	54.2	92.0	49.8	88.0	46.8	85.0	43.9	88.0	40.9	85.0	25.7	30.0
31.25	10.5	9.8	52.9	95.0	49.9	92.0	42.4	85.0	39.4	82.0	38.1	82.0	35.1	79.0	23.6	30.0
62.50	15.0	14.1	48.4	95.0	45.4	92.0	33.4	81.0	30.4	78.0	32.1	76.0	29.1	73.0	21.5	30.0
100.00	19.1	17.7	45.3	95.0	42.3	92.0	26.2	77.0	23.2	74.0	28.0	72.0	25.0	69.0	20.1	30.0
250.00	31.1	29.5	39.3	85.0	36.3	82.0	8.3	55.0	5.3	52.0	20.0	64.0	17.0	61.0	17.3	24.0
400.00	40.1	38.8	36.3	80.0	33.3	77.0	-3.8	41.0	-6.8	38.0	16.0	57.0	13.0	54.0	15.9	23.0
500.00	45.3	43.5	34.8	75.0	31.8	72.0	-10.4	31.0	-13.4	28.0	14.0	55.0	11.0	52.0	15.2	22.0

Ordering Code

C6A-FFTP-SLD-BU-DCA-500M

Category 6A F/FTP Cable, Solid 23 AWG, Blue, CPR: Dca, 500 Meters

Category 6A S/FTP 23AWG 500MHz LSZH Data Cable | B2ca



Category 6A class cables are designed for analog and digital signal transmission in voice, video and data applications in supported data communication systems up to 500 MHz. Cables meet the requirements of structural cabling standards including ANSI EIA/TIA 568, ISO/IEC 11801 and EN 50173 Class EA. Foam-skin insulation technology is used on the pairs.

Compliant Standards

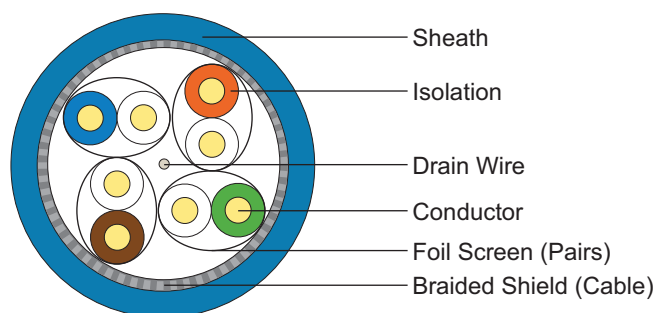
ANSI TIA/EIA 568.2-D
ISO/IEC 11801 2nd ed., IEC 61156-5
EN 50173-1, EN 50288-10-1

Applications

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
IEEE 802.5 16 MB; ISDN; TPDDI; ATM
Power over Ethernet (PoE) / PoE+

EU Declaration

LVD:	Low Voltage Directive	2014/35/EU
RoHS:	Restriction of Hazardous Substances Directive	2011/65/EU



Flame Resistance

Flame Performance	Flame Retardancy	EN 60332-1-2
	Smoke Performance	EN 61034-2
	Halogen Acidity	EN 60754-1/2
Euro-class	B2ca-s1a, d1, a1	EN 13501-6:2018

Cable Construction

Conductor	Bare copper wire 23 AWG
Insulation	Polyolefin
Outer cable diameter	7.4 mm
App. Cable Weight	55 kg/km
Outer Sheath	LSZH - Low Smoke Zero Halogen
Color (standard)	Blue RAL 5015

Mechanical Properties

Min. Bending Radius	Installation:	8 x D
	Operation:	4 x D
Temperature Range	Installation:	0°C up to + 50°C
	Operation:	-20°C up to + 60°C
Tensile Strength	110 N	max.
Crush Resistance	1000 N/dm	min.
Impact Resistance	10 Impact	

Electrical Properties

Conductor Resistance	75.0 Ω/km	max.
Resistance Unbalance	2%	max.
Insulation Resistance	5000 MΩ x m	min.
Capacity	42 pF/m	nom.
Capacity Unbalance	1600 pF/km	max.
Characteristic Impedance	100±5 Ohm	@ 100 MHz
Nominal Velocity of Propagation	78-80%	
Propagation Delay	430 ns/100m	max.
Delay Skew	25 ns/100m	max.
Test Voltage	1000 V	

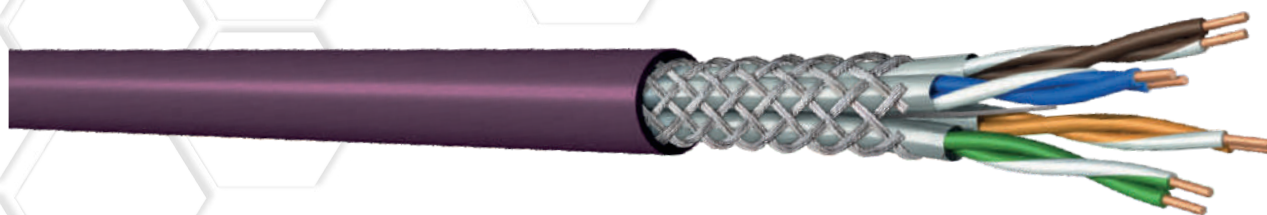
Transmission Properties

Frequency (MHz)	Attenuation (dB/100m)		NEXT (dB)		PS-NEXT (dB)		ACR (dB/100m)		PS-ACR (dB/100m)		ACR-F (dB/100m)		PS-ACR-F (dB/100m)		Return Loss (dB)	
	max.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.
1.00	2.1	1.9	75.3	95.0	72.3	92.0	73.2	93.0	70.2	90.0	68.0	100.0	65.0	97.0	20.0	26.0
4.00	3.8	3.5	66.3	95.0	63.3	92.0	62.5	91.0	59.5	88.0	56.0	100.0	53.0	97.0	23.0	27.0
10.00	5.9	5.6	60.3	95.0	57.3	92.0	54.4	89.0	51.4	86.0	48.0	92.0	45.0	89.0	25.0	30.0
16.00	7.5	6.9	57.2	95.0	54.2	92.0	49.8	88.0	46.8	85.0	43.9	88.0	40.9	85.0	25.7	30.0
31.25	10.5	9.8	52.9	95.0	49.9	92.0	42.4	85.0	39.4	82.0	38.1	82.0	35.1	79.0	23.6	30.0
62.50	15.0	14.1	48.4	95.0	45.4	92.0	33.4	81.0	30.4	78.0	32.1	76.0	29.1	73.0	21.5	30.0
100.00	19.1	17.7	45.3	95.0	42.3	92.0	26.2	77.0	23.2	74.0	28.0	72.0	25.0	69.0	20.1	30.0
250.00	31.1	29.5	39.3	85.0	36.3	82.0	8.3	55.0	5.3	52.0	20.0	64.0	17.0	61.0	17.3	24.0
400.00	40.1	38.8	36.3	80.0	33.3	77.0	-3.8	41.0	-6.8	38.0	16.0	57.0	13.0	54.0	15.9	23.0
500.00	45.3	43.5	34.8	75.0	31.8	72.0	-10.4	31.0	-13.4	28.0	14.0	55.0	11.0	52.0	15.2	22.0

Ordering Code

C6A-SFTP-SLD-BU-B2CA-500M Category 6A S/FTP Cable, Solid 23 AWG, Blue, CPR: B2ca, 500 Meters

Category 7 S/FTP 23AWG 900MHz LSZH Data Cable | Dca



Category 7 class cables are designed for analog and digital signal transmission in voice, video and data applications in supported data communication systems up to 900 MHz. Cables meet the requirements of structural cabling standards including ANSI EIA/TIA 568, ISO/IEC 11801 and EN 50173 Class EA. Foam-skin insulation technology is used on the pairs.

Compliant Standards

ANSI TIA/EIA 568.2-D
ISO/IEC 11801 2nd ed., IEC 61156-5
EN 50173-1, EN 50288-4-1

Applications

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
IEEE 802.5 16 MB; ISDN; TPDDI; ATM
Power over Ethernet (PoE) / PoE+

EU Declaration

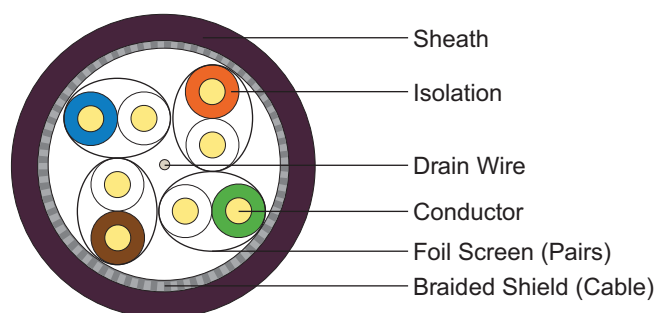
LVD:	Low Voltage Directive	2014/35/EU
RoHS:	Restriction of Hazardous Substances Directive	2011/65/EU

Flame Resistance

Flame Performance	Flame Retardancy	EN 60332-1-2
	Smoke Performance	EN 61034-2
	Halogen Acidity	EN 60754-1/2
Euro-class	Dca - s2, d2, a1	EN 13501-6:2018

Cable Construction

Conductor	Bare copper wire 23 AWG
Insulation	Polyolefin
Outer cable diameter	7.4 mm
App. Cable Weight	55 kg/km
Outer Sheath	LSZH - Low Smoke Zero Halogen
Color (standard)	Purple RAL 4007



Mechanical Properties

Min. Bending Radius	Installation:	8 x D
	Operation:	4 x D
Temperature Range	Installation:	0°C up to + 50°C
	Operation:	-20°C up to + 60°C
Tensile Strength	110 N	max.
Crush Resistance	1000 N/dm	min.
Impact Resistance	10 Impact	

Electrical Properties

Conductor Resistance	75.0 Ω/km	max.
Resistance Unbalance	2%	max.
Insulation Resistance	5000 MΩ x m	min.
Capacity	42 pF/m	nom.
Capacity Unbalance	1600 pF/km	max.
Characteristic Impedance	100±5 Ohm	@ 100 MHz
Nominal Velocity of Propagation	78-80%	
Propagation Delay	430 ns/100m	max.
Delay Skew	25 ns/100m	max.
Test Voltage	1000 V	

Transmission Properties

Frequency (MHz)	Attenuation (dB/100m)		NEXT (dB)		PS-NEXT (dB)		ACR (dB/100m)		PS-ACR (dB/100m)		ACR-F (dB/100m)		PS-ACR-F (dB/100m)		Return Loss (dB)	
	max.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.
1.00	2.0	1.8	80.0	100.0	77.0	97.0	78.0	98.0	75.0	95.0	80.0	107.0	77.0	104.0	20.0	26.0
4.00	3.7	3.3	80.0	100.0	77.0	97.0	77.0	96.0	74.0	93.0	80.0	107.0	77.0	104.0	23.0	27.0
10.00	5.9	5.3	80.0	100.0	77.0	97.0	74.0	94.0	71.0	91.0	74.0	104.0	71.0	101.0	25.0	30.0
100.00	19.0	17.5	72.0	100.0	69.0	97.0	54.0	82.0	51.0	79.0	54.0	92.0	51.0	89.0	25.7	30.0
200.00	27.5	25.2	68.0	100.0	65.0	97.0	41.0	75.0	38.0	72.0	48.0	84.0	45.0	81.0	23.6	30.0
250.00	31.0	28.0	66.0	100.0	63.0	97.0	36.0	72.0	33.0	69.0	46.0	81.0	43.0	78.0	21.5	30.0
500.00	45.3	40.5	62.0	96.0	59.0	93.0	18.0	55.0	15.0	52.0	40.0	68.0	37.0	65.0	20.1	30.0
600.00	50.1	44.5	61.0	90.0	58.0	87.0	12.0	45.0	9.0	42.0	38.0	64.0	35.0	61.0	17.3	24.0
700.00	-	53.5	-	84.0	-	81.0	-	30.0	-	27.0	-	56.0	-	53.0	15.9	23.0
800.00	-	55.0	-	83.0	-	80.0	-	28.0	-	25.0	-	54.0	-	51.0	15.2	22.0
900.00	-	57.0	-	81.0	-	78.0	-	24.0	-	21.0	-	49.0	-	46.0	-	21.0

Ordering Code

C07-SFTP-SLD-PR-DCA-500M

Category 7 S/FTP Cable, Solid 23 AWG, Purple, CPR: Dca, 500 Meters

Category 7A S/FTP 23AWG 1200MHz LSZH Data Cable | Dca



Category 7A class cables are designed for analog and digital signal transmission in voice, video and data applications in supported data communication systems up to 1200 MHz. Cables meet the requirements of structural cabling standards including ANSI EIA/TIA 568, ISO/IEC 11801 and EN 50173 Class FA. Foam-skin insulation technology is used on the pairs.

Compliant Standards

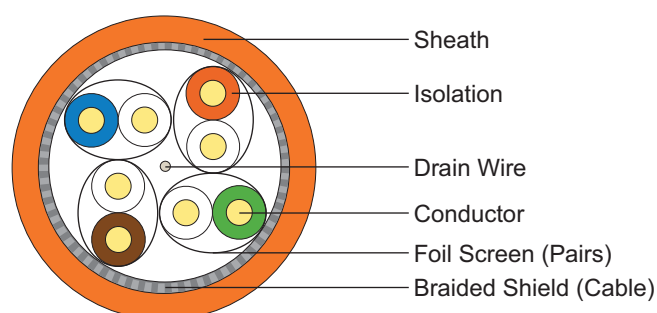
ANSI TIA/EIA 568.2-D
ISO/IEC 11801 2nd ed., IEC 61156-5
EN 50173-1, EN 50288-9-1

Applications

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
IEEE 802.5 16 MB; ISDN; TPDDI; ATM
Power over Ethernet (PoE) / PoE+

EU Declaration

LVD:	Low Voltage Directive	2014/35/EU
RoHS:	Restriction of Hazardous Substances Directive	2011/65/EU



Flame Resistance

Flame Performance	Flame Retardancy	EN 60332-1-2
	Smoke Performance	EN 61034-2
	Halogen Acidity	EN 60754-1/2
Euro-class	Dca - s2, d2, a1	EN 13501-6:2018

Cable Construction

Conductor	Bare copper wire 23 AWG
Insulation	Polyolefin
Outer cable diameter	7.6 mm
App. Cable Weight	60 kg/km
Outer Sheath	LSZH - Low Smoke Zero Halogen
Color (standard)	Orange RAL 2003

Mechanical Properties

Min. Bending Radius	Installation:	8 x D
	Operation:	4 x D
Temperature Range	Installation:	0°C up to + 50°C
	Operation:	-20°C up to + 60°C
Tensile Strength	120 N	max.
Crush Resistance	1000 N/dm	min.
Impact Resistance	10 Impact	

Electrical Properties

Conductor Resistance	68.0 Ω/km	max.
Resistance Unbalance	2%	max.
Insulation Resistance	5000 MΩ x m	min.
Capacity	42 pF/m	nom.
Capacity Unbalance	1600 pF/km	max.
Characteristic Impedance	100±5 Ohm	@ 100 MHz
Nominal Velocity of Propagation	78-80%	
Propagation Delay	430 ns/100m	max.
Delay Skew	25 ns/100m	max.
Test Voltage	1000 V	

Transmission Properties

Frequency (MHz)	Attenuation (dB/100m)		NEXT (dB)		PS-NEXT (dB)		ACR (dB/100m)		PS-ACR (dB/100m)		ACR-F (dB/100m)		PS-ACR-F (dB/100m)		Return Loss (dB)	
	max.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.
1.00	2.1	1.9	78.0	104.0	75.0	101.0	72.9	102.0	69.9	99.0	78.0	108.0	75.0	105.0	20.0	26.0
4.00	3.7	3.5	78.0	104.0	75.0	101.0	71.3	100.0	68.3	97.0	78.0	107.0	75.0	104.0	23.0	30.0
10.00	5.8	5.4	78.0	104.0	75.0	101.0	69.2	99.0	66.2	96.0	75.3	104.0	72.3	101.0	25.0	33.0
100.00	18.5	17.4	75.4	104.0	72.4	101.0	53.9	87.0	50.9	84.0	55.3	92.0	52.3	89.0	20.1	33.0
200.00	26.5	24.9	70.9	104.0	67.9	101.0	41.4	79.0	38.4	76.0	49.3	84.0	46.3	81.0	18.0	32.0
250.00	29.7	27.8	69.4	104.0	66.4	101.0	36.7	76.0	33.7	73.0	47.3	79.0	44.3	76.0	17.3	30.0
500.00	42.8	40.1	64.9	99.0	61.9	96.0	19.2	59.0	16.2	56.0	41.3	67.0	38.3	64.0	17.3	28.0
600.00	47.1	43.8	63.7	93.0	60.7	90.0	13.6	50.0	10.6	47.0	39.7	60.0	36.7	57.0	17.3	25.0
800.00	54.9	50.1	61.9	86.0	58.9	83.0	3.9	32.0	0.9	29.0	37.2	53.0	34.2	50.0	16.1	23.0
1000.00	61.9	59.0	60.4	84.0	57.4	81.0	-4.5	26.0	-7.5	23.0	35.3	43.0	32.3	40.0	15.1	20.0
1200.00	-	64.0	-	82.0	-	79.0	-	18.0	-	15.0	-	38.0	-	35.0	-	19.0

Ordering Code

C7A-SFTP-SLD-OG-DCA-500M

Category 7A S/FTP Cable, Solid 23 AWG, Orange, CPR: Dca, 500 Meters

Modular Keystone Jack Patch Panels

XTND modular panels are copper patch panels suitable for 19" rack structures with 24 or 48 port options. These copper patch panels are compatible with all standard CAT6 and CAT6A keystone jacks. These products are generally 1U high and diversified for different applications with angled and non-angle models. 0.5U model is also available for 24-port applications with space problems.

Straight Panels



UHD 1/2U - 24 Ports
YT01202



HD 1U - 24 Ports
YT01203



UHD 1U - 48 Ports
YT01201

Angled Panels



HD 1U - 24 Ports
YT01204



UHD 1U - 48 Ports
YT01206

Features

- Multiple options: 24/48 ports 1U or 24 ports 1/2U
- Good for Cat5e, Cat6 and Cat6A keystone jacks or couplers
- Embedded Labels and inlaid marking tags, for easier cable identification
- Supplied with a pre-assembled earthing kit
- High density mounting in 19" cabinets and rack structures
- Easy mountable/dismountable rear cable organizer design
- The Modular design is perfect for pre-terminated and standard installations

Ordering Codes

Order Code	Ports	Height	Front Panel
YT01202	24	1/2U	Straight
YT01203	24	1U	Straight
YT01201	48	1U	Straight
YT01204	24	1U	Angled
YT01206	48	1U	Angled

1U 19" Pass-Through Panel With Brush Strip (Metal)

1U Pass-through Panels with Brush Strip is an ideal solution for routing cables from the front of the rack to the rear. The panels can be mounted on unused rack openings to reduce bypass airflow through open spaces in racks and cabinets. Brush strips provide a barrier to airflow, while allowing cables to be passed from the front to the rear of the rack.



1U 19" Pass-Through Panel With Brush Strip (Metal)

Order Code	MT09618
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19" Snap-in Blanking Panels | Tool-less

Blanking panels are part of the energy-saving airflow management solutions for smart data centers. They are designed to minimize bypass airflow in racks and cabinets while providing a desirable appearance.



1U 19" Finger Grip Snap-in Blanking Panel (Plastic)

Order Code	MT09617
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This panel has a knob on each side to be installed and removed easily with fingers grip, and it just needs to be pushed in to snap in its fixed position.



1U 19" Latch Snap-in Blanking Panel (Metal)

Order Code	MT09615
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This panel has a latch on each side to provide a more secure lock in position, and it cannot be removed without unhooking the latches sideways.



6U 19" Breakable Blanking Panel (Plastic)

Order Code	MT09616
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This panel is good for closing multiple U sections together. It is made of 6 panels that can be broken apart to fit from 6 to 1 U sections, and each part can be snapped in position easily.

1U 19" Modular Cable Organizer | With 5 Snap In Rings

The new concept Cable Management Panel with fully modular rings configuration provides flexibility in Cable Management. Configurations can be vertical or horizontal or can be mixed by rotating the position of the rings on housing. No tools required for plugging the rings onto the cable management panel.



1U 19" Modular Cable Organizer | With 5 Snap In Rings

Order Code	MT14351
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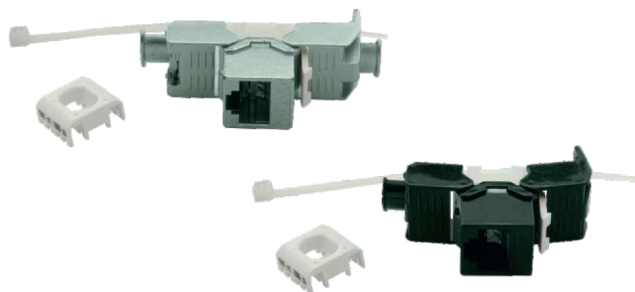


CAT6A UTP/FTP Keystone Jacks 180° | Unshielded/Shielded

Cat 6A level 180° UTP/FTP tool-less keystone jack is designed to easily snap in and out of the wall outlets, patch panels and surface mount boxes. CAT6A tool-less jacks are designed in a 180° orientation and are available with back interconnection of 110 IDC blocks in universal pin / pair assignment. The Cat 6A keystone module supports transmission performance of edition 2.2 of ISO/IEC 11801, CENELEC 50173-1, and ANSI-TIA-568.2-D for Return loss, Insertion loss, NEXT loss, FEXT loss, TCL, TCTL, PSANEXT loss, and PSAFEXT loss up to 500 MHz. This RJ45 female keystone jack is T568A and T568B wiring color coded that supports 22 to 26 AWG solid or stranded Ethernet cables.

Order Code

YT01193	KJ-RJ45F-RJ45F-C6A-FS-180 (FTP w/o Dust Cover)
YT01920	KJ-RJ45F-RJ45F-C6A-FS-180-WD (FTP w/ Dust Cover)
YT01525	KJ-RJ45F-RJ45F-C6A-US-180 (UTP Black/White)



FTP Shielded Keystone

FTP Shielded Keystone w/ Dust Cover

UTP Unshielded Keystone



Features and Benefits

- Transmission Performance, ISO-11801 & TIA-568.2-D Cat 6A Connecting Hardware
- Reduced alien cross-talk from neighboring connectors
- Tool-less design for fast and easy installation
- Integrated Color coding according to EIA/TIA 568 A & B
- 50u" Gold at Contact Area Nickel Undercoat
- Cable Outer Diameter 5mm to 9mm
- Flammability rating, UL94 V-0
- RoHS Compliant, EU Directive 2002/95/EC

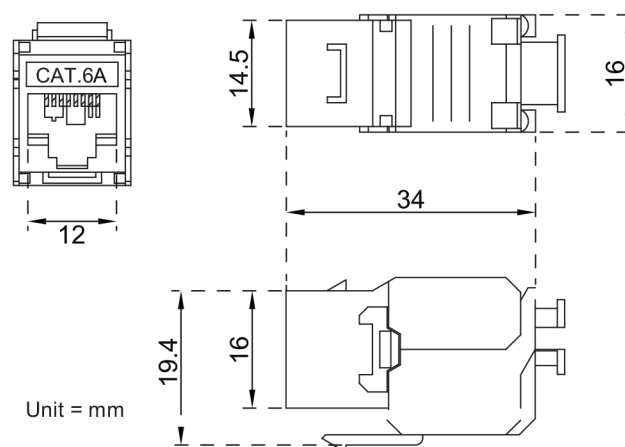


Packaging

50 pcs.



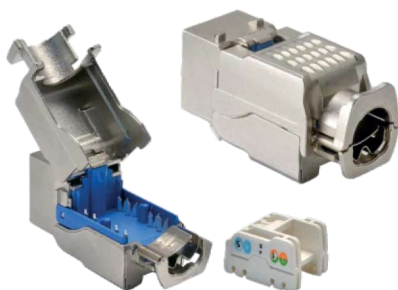
Dimensions



Component Rated CAT6A SFTP Keystone Jack 90° | Shielded

Cat 6A Component Level 90° Shielded Tool-less Keystone Jack is designed to easily snap in and out of the wall outlets, patch panels and surface mount boxes. CAT6A CR Series tool-less jacks are designed in a 90° orientation and are available with back interconnection of 110 IDC blocks in universal pin / pair assignment. The Cat 6A keystone module supports transmission performance of edition 2.2 of ISO/IEC 11801, CENELEC 50173-1, and ANSI-TIA-568.2-D for Return loss, Insertion loss, NEXT loss, FEXT loss, TCL, TCTL, PSANEXT loss, and PSAFEXT loss up to 500 MHz. This RJ45 female keystone jack is T568A and T568B wiring color coded that supports 22 to 26 AWG solid or stranded Ethernet cables.

Order Code	Product Code
YT01645	KJ-RJ45F-RJ45F-C6A-FS-90-TIA (w/o Dust Cover)
YT01921	KJ-RJ45F-RJ45F-C6A-FS-90-TIA-WD (w/ Dust Cover)



w/ Dust Cover



w/o Dust Cover



Features and Benefits

- The unique structure provides an efficient and effective method of reducing alien cross-talk from neighboring connectors
- ISO Cat 6a beyond TIA Cat 6A – contributes 30% increase on performance at 500MHz
- Spring Wire Plating 50u" Gold at Contact Area Nickel Undercoat
- Tool-less design for fast and easy installation
- Integrated Color coding according to EIA/TIA 568 A & B
- Improved RL & counteracting NEXT
- Cable Outer Diameter 5mm to 9mm

Compliance and Certifications

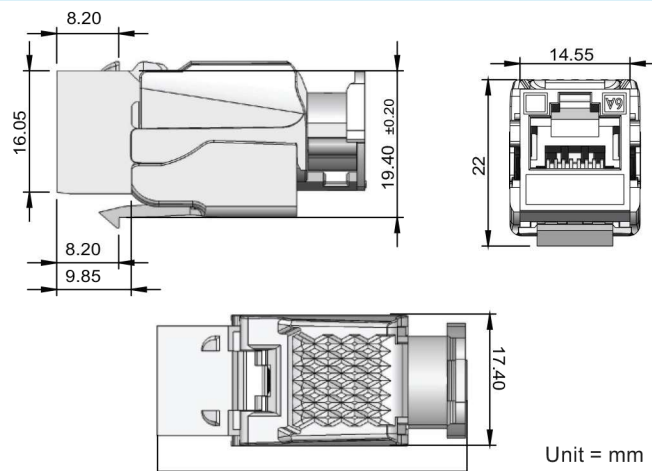
- Transmission Performance, ISO-11801 & TIA-568.2-D Cat 6A Connecting Hardware Certified
- FCC & IEC Compliance , Meets FCC part 68-F & IEC60603-7
- PoE Compliance, Supports Power over Ethernet PoE+ 802.3at and PoE++ 802.3bt
- Ethernet Standard, IEEE 802.3an 10GBase-T 10Gbit/s Ethernet over Twisted Pair
- Flammability rating, UL94 V-0,
- RoHS Compliant , EU Directive 2002/95/EC

Packaging

50 pcs.



Dimensions

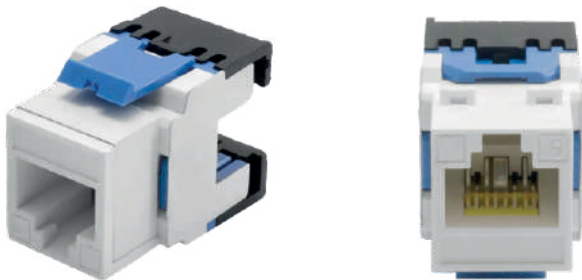


Component Rated CAT6 UTP Keystone Jack 180° | Unshielded

Component Rated Cat6 level 180° UTP punch-down keystone jack is designed to easily snap in and out of the wall outlets, patch panels and surface mount boxes. CAT6 jacks are designed in a 180° orientation and are available with back interconnection of IDC blocks in universal pin / pair assignment. The Cat 6 keystone module supports transmission performance of edition 2.2 of ISO/IEC 11801, CENELEC 50173-1, and ANSI-TIA-568.2-D for Return loss, Insertion loss, NEXT loss, FEXT loss, TCL, TCTL, PSANEXT loss, and PSAFEXT loss up to 250 MHz. This RJ45 female keystone jack is T568A and T568B wiring color coded that supports 23 to 26 AWG solid or stranded Ethernet cables.

Order Code

YT01922 KJ-RJ45F-RJ45F-C06-US-180-CR



Termination Tool

MT13228 KJ-TOOL-180-YT01644

Features and Benefits

- The unique structure provides an efficient and effective method of reducing alien cross-talk from neighboring connectors
- Compatible with both 110 & LSA crimping tools
- 50u" Gold plated Nickel at contact points
- Higher data bandwidth for up to 350MHz
- Integrated Color coding according to EIA/TIA 568 A & B
- Designed for Improved return and NEXT loss

Compliance and Certifications

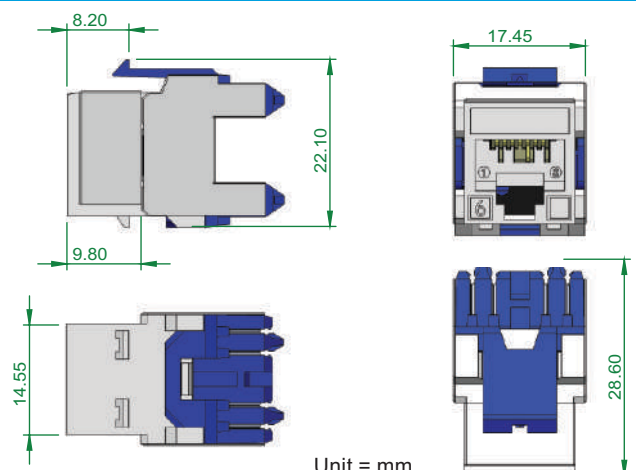
- Transmission Performance, ISO-11801 & TIA-568.2-D Cat 6 Connecting Hardware Certified
- FCC & IEC Compliance, Meets FCC part 68-F & IEC60603-7
- PoE Compliance, Supports Power over Ethernet PoE+ 802.3at and PoE++ 802.3bt
- Ethernet Standard, IEEE 802.3ab 1000Base-T Gbit/s Ethernet over Twisted Pair
- Flammability rating, UL94 V-0,
- RoHS Compliant, EU Directive 2002/95/EC

Packaging

50 pcs.



Dimensions

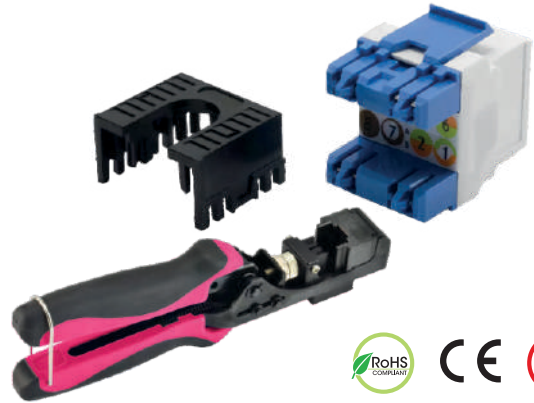
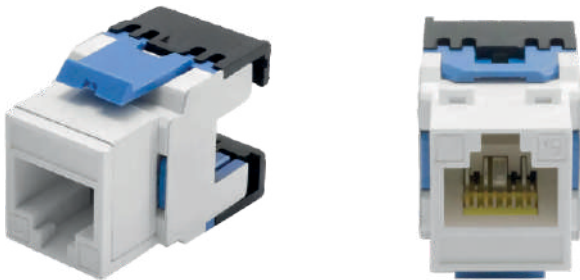


ISO/IEC Rated CAT6A UTP Keystone Jack 180° | Unshielded

ISO/IEC Rated Cat6A level 180° UTP punch-down keystone jack is designed to easily snap in and out of the wall outlets, patch panels and surface mount boxes. CAT6A jacks are designed in a 180° orientation and are available with back interconnection of IDC blocks in universal pin / pair assignment. The Cat 6A keystone module supports transmission performance of edition 2.2 of ISO /IEC 11801, CENELEC 50173-1, and ANSI-TIA-568.2-D for Return loss, Insertion loss, NEXT loss, FEXT loss, TCL, TCTL, PSANEXT loss, and PSAFEXT loss up to 500 MHz. This RJ45 female keystone jack is T568A and T568B wiring color coded that supports 23 to 26 AWG solid or stranded Ethernet cables.

Order Code

YT01644 KJ-RJ45F-RJ45F-C6A-US-180-ISO/IEC



Termination Tool

MT13228 KJ-TOOL-180-YT01644

Features and Benefits

- The unique structure provides an efficient and effective method of reducing alien cross-talk from neighboring connectors
- ISO Cat 6a beyond TIA Cat 6A – contributes 30% increase on performance at 500MHz
- Spring Wire Plating 50u" Gold at Contact Area Nickel Undercoat
- Accepts both 110 & LSA tools
- Integrated Color coding according to EIA/TIA 568 A & B
- Improved RL & counteracting NEXT
- Cable Outer Diameter 5mm to 9mm

Compliance and Certifications

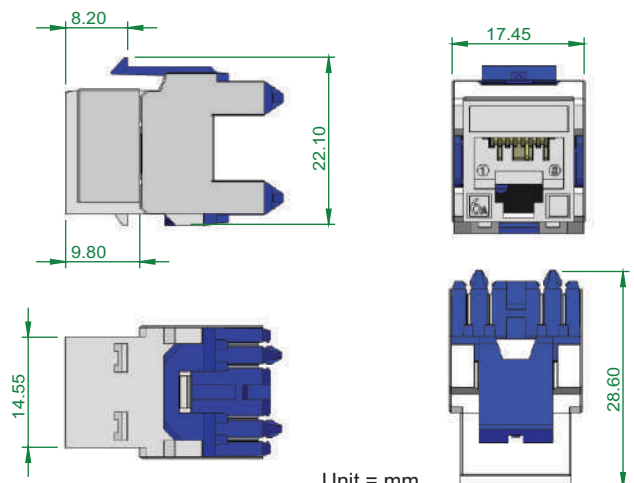
- Transmission Performance, ISO-11801 & TIA-568.2-D Cat 6A Connecting Hardware Certified
- FCC & IEC Compliance , Meets FCC part 68-F & IEC60603-7
- PoE Compliance, Supports Power over Ethernet PoE+ 802.3at and PoE++ 802.3bt
- Ethernet Standard, IEEE 802.3an 10GBase-T 10Gbit/s Ethernet over Twisted Pair
- Flammability rating, UL94 V-0,
- RoHS Compliant , EU Directive 2002/95/EC

Packaging

50 pcs.



Dimensions



Unit = mm

Cat.6 Copper Patch Cord | U/UTP, AWG 24

Cat6 U/UTP Patch Cord Series are 4-pair, 24 AWG (stranded) and flexible cable structures terminated with unshielded RJ45 connectors at both ends. These patch cords are used in cabinet and user terminals in structured cabling systems.

CAT6 patch cables are used for Gigabit Ethernet **1GBASE-T** speed and 250 MHz frequency requirements. These patch cords work well with keystone jacks terminated with both T568A and T568B color codes.



Compliant Standards

ISO/IEC 11801:2011 (Ed. 2.2) ANSI/TIA/EIA-568.2-D

Applications

IEEE 802.3: 10BASE-T; 100BASE-T; 1000BASE-T

IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)



Flame Resistance for Cable

LSZH FR - IEC 60332-1-2



Features

100% performance tested by VIAVI 10G/40G Certifier to guarantee the quality

Small diameter, Flexible cable for easy routing

Snag-less boots to prevent latch damage

Assembly Wiring Standard T568B

(T568A or Cross-over can be requested)

Assembly Order Coding

RJ45M-RJ45M-C06-UUTP-24FLX-GY-XXM

Sample Code

RJ45M-RJ45M-C06-UUTP-24FLX-GY-01

Available Jacket and Boot Colors

Grey

Cable Construction

Conductor	Stranded bare copper wire Ø: 7 x 0.18 mm AWG 24
Side A/B Connector Type	RJ45 Male / RJ45 Male
Sheath	Foam skin polyethylene, LSZH-FR
Contact pin material	Phosphor-bronze alloy coated with 50 µ of gold
Outer cable diameter	5.9 mm
Plug Termination Method	Injection moulded

Mechanical Properties

Insertion / extraction cycles	min. 500	
Temperature range	Installation	0°C up to + 50°C
	Operation	-20°C up to + 60°C
Min. bending radius	Installation	4 x Diameter (25 mm)
	Operation	8 x Diameter (50 mm)

Cat.6A Copper Patch Cord | U/UTP, AWG 24

Cat6A U/UTP Patch Cord Series are 4-pair, 24 AWG (stranded) and flexible cable structures terminated with unshielded RJ45 connectors at both ends. These patch cords are used in cabinet and user terminals in structured cabling systems.

CAT6A patch cables are used for Gigabit Ethernet 10GBASE-T speed and 500 MHz frequency requirements. These patch cords work well with keystone jacks terminated with both T568A and T568B color codes.



Compliant Standards

ISO/IEC11801:2011(Ed. 2.2) ANSI/TIA/EIA-568.2-D

Applications

IEEE 802.3: 10BASE-T; 100BASE-T; 1000BASE-T; 10GBASE-T

IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)



Flame Resistance for Cable

LSZH FR - IEC 60332-1-2



Features

100% performance tested by VIAVI 10G/40G Certifier to guarantee the quality

Small diameter, Flexible cable for easy routing

Snag-less boots to prevent latch damage

Assembly Wiring Standard T568B

(T568A or Cross-over can be requested)

Assembly Order Coding

RJ45M-RJ45M-C6A-UUTP-24FLX-WH-XXM

Sample Code

RJ45M-RJ45M-C6A-UUTP-24FLX-WH-07

Available Jacket and Boot Colors

White

Cable Construction

Conductor	Stranded bare copper wire Ø: 7x 0.18 mm AWG 24	
Side A/B Connector Type	RJ45 Male / RJ45 Male	
Sheath	Foam skin polyethylene, LSZH-FR	
Contact pin material	Phosphor-bronze alloy coated with 50 µ of gold	
Outer cable diameter	5.9 mm	
Plug Termination Method	Injection Moulded	

Mechanical Properties

Insertion / extraction cycles	min. 500	
Temperature range	Installation	0°C up to + 50°C
	Operation	-20°C up to + 60°C
Min. bending radius	Installation	4 x Diameter (25 mm)
	Operation	8 x Diameter (50 mm)

Cat.6A Copper Patch Cord | S/FTP, AWG 26

Cat6A S/FTP Patch Cord Series are 4-pair, 26 AWG (stranded) and flexible cable structures terminated with shielded RJ45 connectors at both ends. These patch cords are used in cabinet and user terminals in structured cabling systems. CAT6A patch cables are used for Gigabit Ethernet 10GBASE-T speed and 500 MHz frequency requirements. These patch cords work well with keystone jacks terminated with both T568A and T568B color codes.

Compliant Standards

ISO/IEC11801:2011(Ed. 2.2) ANSI/TIA/EIA-568.2-D

Uygulamalar

IEEE 802.3: 10BASE-T; 100BASE-T; 1000BASE-T; 10GBASE-T

IEEE 802.5 16 MB; ISDN;TPDDI;ATM

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)

Flame Resistance for Cable

LSZH FR - IEC 60332-1-2

Özellikler

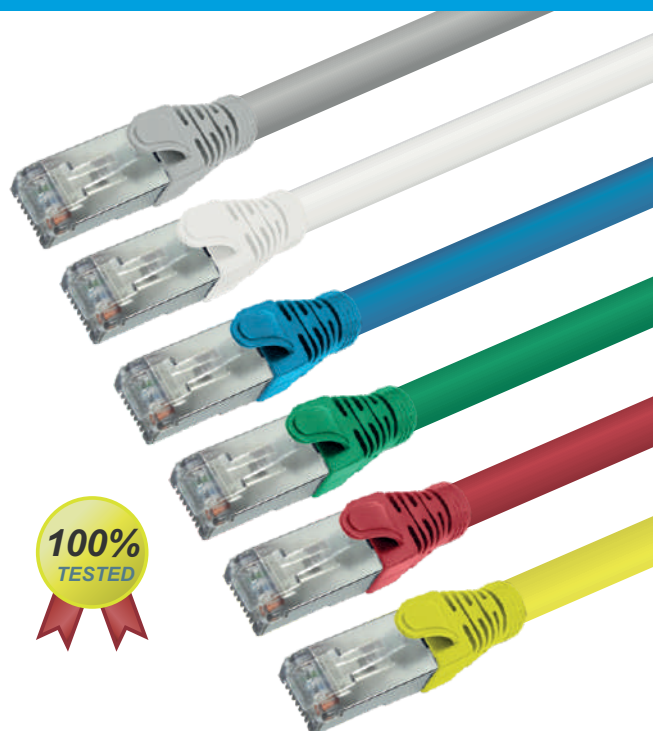
100% performance tested by VIAVI 10G/40G Certifier to guarantee the quality

Small diameter, Flexible cable for easy routing

Snag-less boots to prevent latch damage

Assembly Wiring Standard T568B

(T568A or Cross-over can be requested)



Assembly Order Coding

RJ45M-RJ45M-C6A-SFTP-26FLX-BU-XXM

Sample Code

RJ45M-RJ45M-C6A-SFTP-26FLX-BU-M

Available Jacket and Boot Colors

Grey, White, Blue, Green, Red, Yellow

Cable Construction

Conductor	Stranded bare copper wire Ø: 7x 0.16 mm AWG 26
Side A/B Connector Type	RJ45 Male / RJ45 Male
Sheath	Foam skin polyethylene, LSZH-FR
Contact pin material	Phosphor-bronze alloy coated with 50 µ of gold
Outer cable diameter	6.2 mm
Plug Termination Method	Injection Moulded

Mechanical Properties

Insertion / extraction cycles	min. 500
Temperature range	during operation -20°C up to + 60°C during installation 0°C up to + 50°C
Min. bending radius	Installation 4 x Diameter (25 mm) Installed 8 x Diameter (50 mm)

Cat.6A Copper Patch Cord | S/FTP, AWG 28

Cat6A S/FTP Patch Cord Series are 4-pair, 28 AWG (stranded) and flexible cable structures terminated with shielded RJ45 connectors at both ends. These patch cords are used in cabinet and user terminals in structured cabling systems. CAT6A patch cables are used for Gigabit Ethernet 10GBASE-T speed and 500 MHz frequency requirements. These patch cords work well with keystone jacks terminated with both T568A and T568B color codes.

Compliant Standards

ISO/IEC11801:2011(Ed. 2.2) ANSI/TIA/EIA-568.2-D

Applications

IEEE 802.3: 10BASE-T; 100BASE-T; 1000BASE-T; 10GBASE-T

IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)

Flame Resistance for Cable

LSZH FR - IEC 60332-1-2

Features

100% performance tested by VIAVI 10G/40G Certifier to guarantee the quality

Small diameter, Flexible cable for easy routing

Snag-less boots to prevent latch damage

Assembly Wiring Standard T568B

(T568A or Cross-over can be requested)



Assembly Order Coding

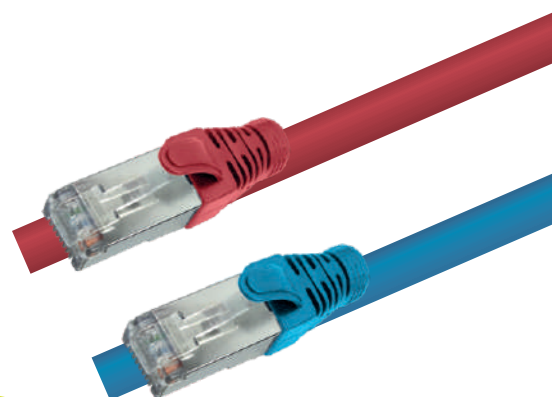
RJ45M-RJ45M-C6A-SFTP-28FLX-RD-XXM

Sample Code

RJ45M-RJ45M-C6A-SFTP-28FLX-RD-05M

Available Jacket and Boot Colors

Red (RD). Blue (BU)



Cable Construction

Conductor	Stranded bare copper wire Ø: 7x 0.12 mm AWG 28
Side A/B Connector Type	RJ45 Male / RJ45 Male
Sheath	Foam skin polyethylene, LSZH-FR
Contact pin material	Phosphor-bronze alloy coated with 50 µ of gold
Outer cable diameter	5.3 mm
Plug Termination Method	Injection Moulded

Mechanical Properties

Insertion / extraction cycles	min. 500
Temperature range	during operation -20°C up to + 60°C
	during installation 0°C up to + 50°C
Min. bending radius	Installation 4 x Diameter (20 mm)
	Installed 8 x Diameter (40 mm)

Pre-Terminated 6x Trunk Copper Cables | CAT6A SFTP

Pre-Terminated copper trunk assemblies are designed to improve efficiency and reduce labor cost and waste, especially in large infrastructures with high-density cross-connection and patching systems. Based on the highest performing cabling systems available, supporting 10 Gigabit speeds. Six loose jack module or plug modules on both ends of assembly for simple plug and play installation. Ideal for data centers and other areas where quick installation and consistent network connection are important.

Compliant Standards

ANSI TIA/EIA 568.2-D
ISO/IEC 11801 2nd ed., IEC 61156-5
EN 50173-1, EN 50288-5-1

Applications

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
IEEE 802.5 16 MB; ISDN; TPDDI; ATM
Power over Ethernet (PoE) / PoE+

EU Declaration

LVD:	Low Voltage Directive	2014/35/EU
RoHS:	Restriction of Hazardous Substances Directive	2011/65/EU
CPR:	Cca - s1a, d1, a1	EN 13501-6:2018



Features

- Quality assurance (pre-terminated and 100% tested)
- Private ID serial number is on each trunk cable
- Both plug and jack terminations are available
- HFFR braided mesh sleeve for easy application
- Breakout length is 0.4 m (standard)



Order Codes

6xRJ45F-6xRJ45F-C6A-SFTP-BU-XXM

Cat6A S/FTP 6xFemale-Female Trunk Cable, **xx** Meter

6xRJ45M-6xRJ45F-C6A-SFTP-BU-XXM

Cat6A S/FTP 6xMale-Female Trunk Cable, **xx** Meter

6xRJ45M-6xRJ45M-C6A-SFTP-BU-XXM

Cat6A S/FTP 6xMale-Male Trunk Cable, **xx** Meter



Cable Construction

Conductor	Bare copper wire 23 AWG
Insulation	Polyolefin
Outer cable diameter	7.4 mm
App. Cable Weight	55 kg/km
Sheath	LSZH - Low Smoke Zero Halogen
Color (standard)	Blue RAL 5015

Pre-Terminated 6x Trunk Copper Cables | CAT7 SFTP

Pre-Terminated copper trunk assemblies are designed to improve efficiency and reduce labor cost and waste, especially in large infrastructures with high-density cross-connection and patching systems. Based on the highest performing cabling systems available, supporting 10 Gigabit speeds. Six loose jack module or plug modules on both ends of assembly for simple plug and play installation. Ideal for data centers and other areas where quick installation and consistent network connection are important.

Compliant Standards

ANSI TIA/EIA 568.2-D
ISO/IEC 11801 2nd ed., IEC 61156-5
EN 50173-1, EN 50288-5-1

Applications

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
IEEE 802.5 16 MB; ISDN; TPDDI; ATM
Power over Ethernet (PoE) / PoE+

EU Declaration

LVD:	Low Voltage Directive	2014/35/EU
RoHS:	Restriction of Hazardous Substances Directive	2011/65/EU
CPR:	Dca - s2, d2, a1	EN 13501-6:2018



Order Codes

6xRJ45F-6xRJ45F-C07-SFTP-PR-XXM

Cat7 S/FTP 6xFemale-Female Trunk Cable, xx Meter

6xRJ45M-6xRJ45F-C07-SFTP-PR-XXM

Cat7 S/FTP 6xMale-Female Trunk Cable, xx Meter

6xRJ45M-6xRJ45M-C07-SFTP-PR-XXM

Cat7 S/FTP 6xMale-Male Trunk Cable, xx Meter



Features

- Quality assurance (pre-terminated and 100% tested)
- Private ID serial number is on each trunk cable
- Both plug and jack terminations are available
- HFFR braided mesh sleeve for easy application
- Breakout length is 0.4 m (standard)

Cable Construction

Conductor	Bare copper wire 23 AWG
Insulation	Polyolefin
Outer cable diameter	7.4 mm
App. Cable Weight	55 kg/km
Sheath	LSZH - Low Smoke Zero Halogen
Color (standard)	Purple RAL 4007

Surface Mount Boxes

XTND Surface Mount Boxes provide 1,2,4 or 6 connections for non-premise home theater, VoIP or Ethernet cable applications on a walls or ceilings. These boxes can be iconified and labeled for easy port identification. These boxes are compatible with a range of inserts for RJ-45 jacks, ST, SC & MT-RJ (fiber optic connector) and more.



CAT6 UTP Keystone Jack

YT01922

KJ-RJ45F-RJ45F-C06-US-180-CR

CAT6A UTP Keystone Jack

YT01644

KJ-RJ45F-RJ45F-C6A-US-180-ISO/IEC

Features

- Keystone jacks are sold separately
- Color: White
- Labels & transparent label cover
- Colored data and voice icons
- RoHS compliant
- Includes mounting screws & adhesive tape
- High impact, Flame-retardant plastic compound, UL 94 V-0
- Temperature range;-40 to +60C

Products Details

1-Port Office Box W/Label, Icon & Door (Empty)



2-Port Office Box W/Label, Icon & Door (Empty)



4-Port Office Box W/Label, Icon & Door (Empty)



6-Port Office Box W/Label, Icon & Door (Empty)



French Style Face Plates

XTND offers a variety of French style face plates to provide the basis for a wide range of possible information outlet combinations. Outlets are available in single and double ports. They are also available with shuttered brackets forms and back box for French style face plates.



Single-Gang Faceplate W/Label

Outer: W80.0 x H80.0 mm

Inner: W45.0 x H45.0 mm



Round Single-Gang Faceplate

Outer: W80.0 x H80.0 mm

Inner: W45.0 x H45.0 mm



Single-Gang Back Box

W81.0 x H81.0 x D45.0mm



1-Port Single-Gang Angled Module

W/Icon & Door

W45.0 x H45.0 mm



2-Port Single-Gang Angled Module

W/Icon & Door

W45.0 x H45.0 mm



1-Port Single-Gang Module

W/Door

W45.0 x H45.0 mm



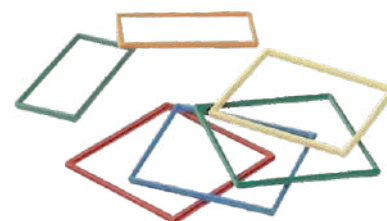
1-Port Half-Gang Module W/Door

W22.5 x H45.0 mm



Blank Half-Gang Module

W22.5 x H45.0 mm



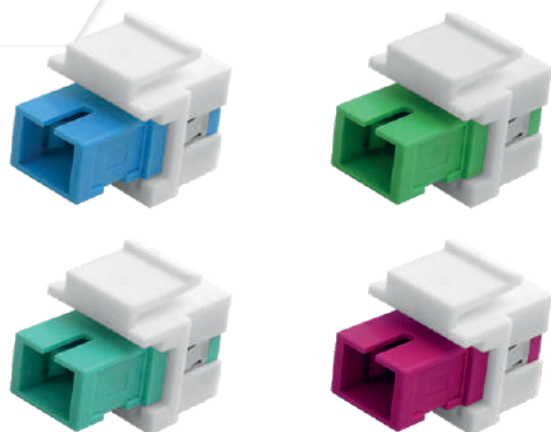
1-Port Half/Single Gang Color Frame

W22.5 x H45.0 mm / W45.0 x H45.0 mm

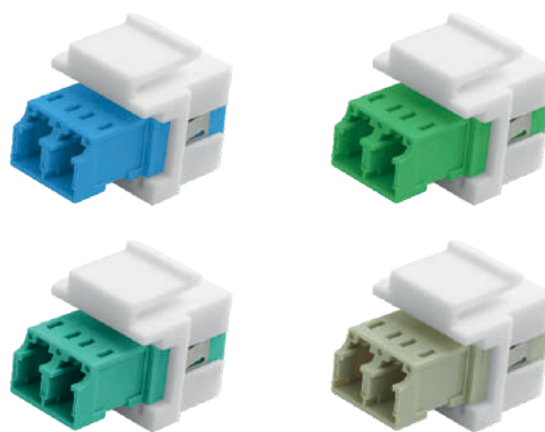
Keystone Compatible Fiber Optic Couplers

SC-SX and LC-DX fiber optic keystone couplers are designed to fit with all Keystone compatible products. The fiber keystone couplers are designed to snap easily into keystone patch panels or wall plates with standard openings. These fiber couplers allow for routing cables through walls and provide a convenient connection to fiber networks. They make a great solution for bringing fiber to the home and office, and we recommend using reduced flanged adapters for best fits.

SC-SX Body Keystone Couplers



LC-DX Body Keystone Couplers



Ordering Codes

Code	Product Description	Code	Product Description
MT13533	SC-SX Fiber Optic Keystone Coupler_Blue Adapter for Single Mode (UPC)	MT13528	LC_DX Fiber Optic Keystone Coupler_Blue Adapter for Single Mode (UPC)
MT13534	SC-SX Fiber Optic Keystone Coupler_Green Adapter for Single Mode (APC)	MT13529	LC_DX Fiber Optic Keystone Coupler_Green Adapter for Single Mode (APC)
MT13535	SC-SX Fiber Optic Keystone Coupler_Beige Adapter for Multi-mode (OM1/OM2)	MT13530	LC_DX Fiber Optic Keystone Coupler_Beige Adapter for Multi-mode (OM1/OM2)
MT13536	SC-SX Fiber Optic Keystone Coupler_Aqua Adapter for Multi-mode (OM3)	MT13531	LC_DX Fiber Optic Keystone Coupler_Aqua Adapter for Multi-mode (OM3)
MT13537	SC-SX Fiber Optic Keystone Coupler_Violet Adapter for Multi-mode (OM4)	MT13532	LC_DX Fiber Optic Keystone Coupler_Violet Adapter for Multi-mode (OM4)

Keystone Compatible Plastic Blind Covers

These blind covers are designed to cover unused ports of patch panels or outlets. It is used to prevent the entry of air and dust. With its standardized dimensions it can be used for easy snap-in mounting in Keystone patch panel, face plate or surface-mount box.

Ordering Codes

Code	Product Description
MT13026	Keystone Plastic Blind Lid for Modular Panel_Black



Structured Cabling Standards

ISO/IEC International Standards

ISO/IEC 11801:2017	Generic Cabling for Customer Premises
ISO/IEC 11801-1:2017	Part 1: General Requirements
ISO/IEC 11801-2: 2017	Part 2: Office Premises
ISO/IEC 11801-3: 2017	Part 3: Industrial Premises
ISO/IEC 11801-4: 2017	Part 4: Single-tenant Homes
ISO/IEC 11801-5: 2017	Part 5: Data Centers
ISO/IEC 11801-6: 2017	Part 6: Distributed Building Services

ANSI/TIA/EIA Standards

ANSI/TIA/EIA-568.0-E:2020	Generic Telecommunications Cabling for Customer Premises
ANSI/TIA/EIA-568.1-E:2020	Commercial Building Telecommunications Cabling Standard
ANSI/TIA/EIA-568.2-D:2018	Balanced Twisted-Pair Telecommunications Cabling and Component Standard

Structured Horizontal Cabling Standards

Organization	Datacenter	Office Premises	Industrial Premises	Single Tenant Homes
	ISO/IEC 11801-5: 2017	ISO/IEC 11801-2: 2017	ISO/IEC 11801-3: 2017	ISO/IEC 11801-4: 2017
	TIA-1005-A:2012+2020	ANSI/TIA/EIA-568.1-E:2020	TIA/EIA-942-B:2017	TIA/EIA-570-B

Categories and Classes of Structured Cabling

Organization	250 MHz	500 MHz	600 MHz	1000 MHz	1250 MHz	2000 MHz
	ISO/IEC11801 Class E	ISO/IEC11801 Class E _A	ISO/IEC11801 Class F	ISO/IEC11801 Class F _A	ISO/IEC11801-9905 25GBASE CAT8 Class I/II	ISO/IEC11801 CAT8 Class I/II
	TIA/EIA 568-C.2/1 CAT 6	TIA/EIA 568-C.2-10 CAT 6A	-	-	-	TIA/EIA 568-C.2-1 CAT 8

Capacity and Transmission Property by Category

Class	Frequency	Category	Transmission
Class A	100 KHz	Cat. 1	Telephony
Class B	1MHz	Cat. 2	128 Kbps
Class C	16 MHz	Cat. 3	10 Mbps
Class C+	20 MHz	Cat. 4	16 Mbps
Class o	100 MHz	Cat. 5	100 Mbps
Class O+	100 MHz	Cat.5e	1,000 Mbps
Class E	250 MHz	Cat. 6	1Gbps
Class EA	500 MHz	Cat. 6A	10 Gbps
Class F	600 MHz	Cat. 7	10 Gbps
Class FA	1,000	Cat. 7A	10 Gbps
Class I/Class II	1,250	Cat. 8.1/8 .2	25 Gbps
Class I/Class II	2,000	Cat. 8.1/8 .2	40 Gbps

A Quick Overview of All Copper Cable Categories



CAT 1

1 Mbps

400 KHz
1983



CAT 2

4 Mbps

4 MHz
1987



CAT 3

10 Mbps

16 MHz
1991



CAT 4

16 Mbps

20 MHz
1993



CAT 5

100 Mbps

100 MHz
1995



CAT 5e

1 Gbps

100 MHz
2001



CAT 6

1 Gbps

250 MHz
2002



CAT 6A

10 Gbps

500 MHz
2008



CAT 7

10 Gbps

600 MHz
2010



CAT 7A

10 Gbps

1000 MHz
2013



CAT 8.1

25 Gbps

2000 MHz
2016



CAT 8.2

40 Gbps

2000 MHz
2018



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