

BELLCOMMS[®]



ผู้นำเข้าโดยตรง
จากโรงงานผู้ผลิต
ภายใต้ตราสินค้า BELLCOMMS



UTP SERIES CATALOG

CAT5E SERIES
CAT6 SERIES
CAT6A SERIES
ACCESSORIES
TOOLS



บริษัท ก้าวเข้าสู่ปีที่ 25
โทร 02-508-0977 (สัปดาห์ 20 คู่สาย)
WWW.NCSNETWORK.COM

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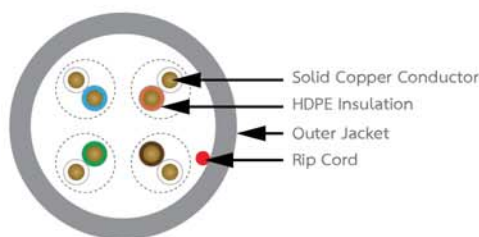
CAT6 Series, Networks Cabling System.

Pictures	Part Number	Cable	Layer	Inner Jacket	Outer Jacket	Messenger Wire	Type		Page
	C61000 C61001	CAT6 CAT6	Single Single	- -	CM CMR	- -	Indoor Indoor		11-12
	C61005 C61003	CAT6 CAT6	Single Double	- PVC	PE PE	- -	Outdoor Outdoor		13-14
	C61004	CAT6	Double	PVC	PE	Messenger Wire	Outdoor		15
	BC-CAT62 P075	CAT6	Single	-	PE	-	Outdoor		16
	C63004	CAT6, Modular Jack RJ45, Original style					C63003	CAT6, Modular Jack RJ45, Shutter	17-18
	C63048	CAT6, Modular Jack RJ45, White color, Slim					C63221 C63222 C63223 C63224 C63225	[BLUE] [BLACK] [RED] [WHITE] [YELLOW] CAT6, Modular Jack RJ45, Black color, SL series	19-20
	C62003	CAT6, Patch Panel, 24 ports, 1U					C62004 C62005	CAT6, Patch Panel, 48 ports, 1U CAT6, Patch Panel, 48 ports, 2U	21
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	C62048	CAT6, Patch Panel Unload 48 ports, 1U Black color					C62048	1 port RJ45 keystone style DIN-Rail type box	25-26
	C68001 - XX C68002 - XX C68003 - XX	CAT6, Patch Cord Cable, 1 Meters CAT6, Patch Cord Cable, 2 Meters CAT6, Patch Cord Cable, 3 Meters					BC-680201	CAT6 RJ45 to RJ45 Coupling Waterproof Connector Panel Mounted	27-28
	C67001	CAT6, Modular Plug RJ45							29

CAT6A Series, Accessories Networks Cabling

Pictures	Part Number	Cable	Layer	Inner Jacket	Outer Jacket	Messenger Wire	Shield	Type		Page
	BC-C6A60001	CAT6A	Single	-	LSZH	-	Foil Shield	Indoor		29
	C69001	CAT6A FTP/STP keystone jack 180 degree Toolless screw cap								30
	BC-C6A62003-XX BC-C6A62004-XX BC-C6A62005-XX	CAT6A RJ45 to RJ45 Patch Cord, LSZH, 1 Meter CAT6A RJ45 to RJ45 Patch Cord, LSZH, 2 Meter CAT6A RJ45 to RJ45 Patch Cord, LSZH, 3 Meter Color code: xx = BL-Blue, YL-Yellow, RD-Red								31
	C69003	CAT6A FTP/STP 24-port PATCH PANEL shielded UNLOAD, rear strip								32
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40025
CAT5E 24AWG Solid Bare Copper
Indoor cable
CMR(FR-PVC) Jacket, White color



Descriptions

The BELLCOMMS UTP Category5E for use as horizontal cable in generic cabling systems. The UTP cable has solid copper conductors insulated with HDPE. The cable is supplied with PVC,CMR or LSZH Jacket. All cables are approved in accordance with the most stringent test procedures. They are also 3P and ETL Verified in accordance with the following standards: ISO/IEC 11801, TIA/EIA 568B.2 and EN 50173



Construction and Material

Descriptions

Number of Pairs	4 pairs, 24AWG
Sheath Material(Outer Jacket)	CMR(FR-PVC)
Ripcord	Under Jacket
Conductor dimension	0.51mm.(24AWG solid bare copper)
Insulation diameter	0.96 mm HDPE
Insulation Color	Blue/White-Blue, Orange/White-Orange, Green/White-Green, Brown/White-Brown
Insulation type	Polyolefin
Cable diameter / Nominal(OD)	5.4 +/- 0.10 / 5.5mm.
Weight	30 Kg/Km
Fire Classification	PVC IEC 60332-1 LSZH IEC61034, IEC60754, IEC 60332-1 LSFROH IEC61034, IEC60754, IEC 60332-3C

Electrical Characteristics

Operating frequency	1 - 350 MHz
Impedance	100 +/- 15 Ohm to 350Mhz
Mutual Capacitance	5.6 nF Max / 100m
DC Resistance	9.38 Ohm Max / 100m
DC Resistance unbalance	2% max
Insulate Resistance	5000 MΩ / Km
Dielectric Strength	1 kV / min
Capacitance Unbalance	160 pF Max / 100m
Propagation Delay	536 ns / 100m Max@ 350Mhz
Delay Skew	25 ns Max
AC Voltage	300 Volts
Test Voltage(DC, 1min)	1kV / min
Vp(nom %)	69%

Mechanical Properties

Minimum Bending Radius	Install 8 x Cable Diameter After Install 4 x Cable Diameter
Tensile Strength	110N(25lbf)
Ultimate Breaking Strength	>400N (90lbf)
Installation / Operating Temperature	-20 °C to 60 °C
Storage Temperature	-20 °C to 80 °C

Electrical Characteristics

Frequency (Mhz)	Insertion Loss (dB/100m)	NEXT MIN.(dB)	ACR-N MIN.(dB)	PS NEXT MIN.(dB)	PS ACR-N MIN.(dB)	ACR-F MIN.(dB/100m)	PS ACR-F MIN.(dB/100m)	RL MIN.(dB)
1	2.0	77	75	75	73	68	65	20.0
25	9.5	56	46.5	54	44.5	40	37	24.3
31.25	10.7	55	44.3	53	42.3	38	35	23.6
62.5	15.4	50	34.6	48	32.6	32	29	21.5
100	19.8	47	27.2	45	25.2	28	25	20.1
155	25.3	44	18.7	42	16.7	24	21	18.8
200	29	43	14	41	12	22	19	18.0
250	32.8	41	8.2	39	6.2	20	17	17.3
300	36.6	40	3.4	38	14	18	15	16.8
350	40	39	-	37	-	17	14	16.3

Order Part Number as Below.

Part Number.	Descriptions.
40025	CAT5E 24AWG Solid Bare Copper,Indoor cable, CMR(FR-PVC) Jacket, White color

Standard

- ANSI/TIA-568.2-D CATEGORY 5E
- ISO/IEC 11801:2017 CLASS D
- EN50173-1 CATEGORY 5E
- ICEA S-90-661 CATEGORY 5E
- EN50288-3-1, NEMA WE 63.1
- IEC 61156-5, ASTM D4566-98, IEC 60332-1
- UL/CSA LISTED CM, CMR, CMP AND LSZH
- ETL TO VERIFIED TO TIA-568-C.2 CAT5E
- UL, RoHS COMPLIANT
- IEEE 802.3AF(PoE) / IEEE 802.3AT (PoE+)
- LIMIT POWER- LP UL POE SAFTY STANDARD
- 10BASE T 2.0 STANDARD
- ETHERNET CAT INDUSTRIAL STANDARD.

Applications

- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- POE, POE+(IEEE 802.3af,IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO

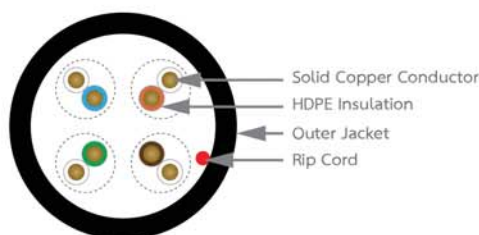
(UL/NEC)Flame Rating

CM,CMR	Jacket : FR-PVC
CMP	: FR PVC(Low Smoke)
LSZH	: FR-LSZH

Insulation

CM,CMR	Jacket : FR-PVC
CMP	: FEP

40029
CAT5E 24AWG Solid Bare Copper
Outdoor cable
PE(UV-proof) Single Jacket, Black color



Descriptions

The BELLCOMMS UTP Category5E for use as horizontal cable in generic cabling systems. The UTP cable has solid copper conductors insulated with HDPE. The cable is supplied with PVC,CMR PE or LSZH Jacket. All cables are approved in accordance with the most stringent test procedures. They are also 3P and ETL Verified in accordance with the following standards: ISO/IEC 11801, TIA/EIA 568B.2 and EN 50173



Construction and Material

Descriptions

Number of Pairs	4 pairs, 24AWG
Sheath Material(Outer Jacket)	PE (UV-proof)
Ripcord	Under Jacket
Conductor dimension	0.51mm.(24AWG solid bare copper)
Insulation diameter	0.96 mm HDPE
Insulation Color	Blue/White-Blue, Orange/White-Orange, Green/White-Green, Brown/White-Brown
Insulation type	Polyolefin
Cable diameter / Nominal(OD)	5.5 +/- 0.20
Weight	30 Kg/Km
Fire Classification	PVC IEC 60332-1 LSZH IEC61034, IEC60754, IEC 60332-1 LSFROH IEC61034, IEC60754, IEC 60332-3C

Electrical Characteristics

Operating frequency	1 - 350 MHz
Impedance	100 +/- 15 Ohm to 350Mhz
Mutual Capacitance	5.6 nF Max / 100m
DC Resistance	9.38 Ohm Max / 100m
DC Resistance unbalance	2% max
Insulate Resistance	5000 MΩ / Km
Dielectric Strength	1 kV / min
Capacitance Unbalance	160 pF Max / 100m
Propagation Delay	536 ns / 100m Max@ 350Mhz
Delay Skew	25 ns Max
AC Voltage	300 Volts
Test Voltage(DC, 1min)	1kV / min
Vp(nom %)	69%

Mechanical Properties

Minimum Bending Radius	Install 8 x Cable Diameter After Install 4 x Cable Diameter
Tensile Strength	9.7 MPa (1400 PSI)
Installation / Operating Temperature	-40 °C to 75 °C
Storage Temperature	-40 °C to 80 °C

Electrical Characteristics

Frequency (Mhz)	Insertion Loss (dB/100m)	NEXT MIN.(dB)	ACR-N MIN.(dB)	PS NEXT MIN.(dB)	PS ACR-N MIN.(dB)	ACR-F MIN.(dB/100m)	PS ACR-F MIN.(dB/100m)	RL MIN.(dB)
1	2.0	77	75	75	73	68	65	20.0
25	9.5	56	46.5	54	44.5	40	37	24.3
31.25	10.7	55	44.3	53	42.3	38	35	23.6
62.5	15.4	50	34.6	48	32.6	32	29	21.5
100	19.8	47	27.2	45	25.2	28	25	20.1
155	25.3	44	18.7	42	16.7	24	21	18.8
200	29	43	14	41	12	22	19	18.0
250	32.8	41	8.2	39	6.2	20	17	17.3
300	36.6	40	3.4	38	14	18	15	16.8
350	40	39	-	37	-	17	14	16.3

Order Part Number as Below.

Part Number.	Descriptions.
40029	CAT5E 24AWG Solid Bare Copper, Outdoor cable PE(UV-proof) Single Jacket, Black color

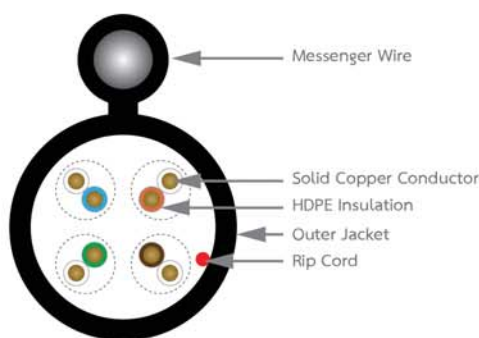
Standard

- ANSI/TIA-568.2-D CATEGORY 5E
- ISO/IEC 11801:2017 CLASS D
- EN50173-1 CATEGORY 5E
- ICEA S-90-661 CATEGORY 5E
- EN50288-3-1, NEMA WE 63.1
- IEC 61156-5, ASTM D4566-98, IEC 60332-1
- UL/CSA LISTED CM, CMR, CMP AND LSZH
- ETL TO VERIFIED TO TIA-568-C.2 CAT5E
- UL, RoHS COMPLIANT
- IEEE 802.3AF(PoE) / IEEE 802.3AT (PoE+)
- LIMIT POWER- LP UL POE SAFTY STANDARD
- 10BASE T 2.0 STANDARD
- ETHERNET CAT INDUSTRIAL STANDARD.

Applications

- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- POE, POE+(IEEE 802.3af,IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO

40030
CAT5E 24AWG Solid Bare Copper
Outdoor cable
PE(UV-proof) Single Jacket
Messenger Wire, Black color



Descriptions

The BELLCOMMS UTP Category5E for use as horizontal cable in generic cabling systems. The UTP cable has solid copper conductors insulated with HDPE. The cable is supplied with PVC,CMR PE or LSZH Jacket. All cables are approved in accordance with the most stringent test procedures. They are also 3P and ETL Verified in accordance with the following standards: ISO/IEC 11801, TIA/EIA 568B.2 and EN 50173



Construction and Material

Descriptions

Number of Pairs	4 pairs, 24AWG
Sheath Material(Outer Jacket)	PE (UV-proof)
Ripcord	Under Jacket
Conductor dimension	0.51mm.(24AWG solid bare copper)
Insulation diameter	0.96 mm HDPE
Insulation Color	Blue/White-Blue, Orange/White-Orange, Green/ White-Green, Brown/White-Brown
Insulation type	Polyolefin
Cable diameter / Nominal(OD)	5.5 +/- 0.20
Weight	30 Kg/Km
Fire Classification	PVC IEC 60332-1 LSZH IEC61034, IEC60754, IEC 60332-1 LSFROH IEC61034, IEC60754, IEC 60332-3C
Messenger Wire	Galvanize Steel Wire, 1.3mm

Electrical Characteristics

Operating frequency	1 - 350 MHz
Impedance	100 +/- 15 Ohm to 350Mhz
Mutual Capacitance	5.6 nF Max / 100m
DC Resistance	9.38 Ohm Max / 100m
DC Resistance unbalance	2% max
Insulate Resistance	5000 MΩ / Km
Dielectric Strength	1 kV / min
Capacitance Unbalance	160 pF Max / 100m
Propagation Delay	536 ns / 100m Max@ 350Mhz
Delay Skew	25 ns Max
AC Voltage	300 Volts
Test Voltage(DC, 1min)	1kV / min
Vp(nom %)	69%

Mechanical Properties

Minimum Bending Radius	Install 8 x Cable Diameter After Install 4 x Cable Diameter
Tensile Strength	16.5 MPa(2400 PSI)
Installation / Operating Temperature	-40 °C to 75 °C
Storage Temperature	-40 °C to 80 °C

Electrical Characteristics

Frequency (Mhz)	Insertion Loss (dB/100m)	NEXT MIN.(dB)	ACR-N MIN.(dB)	PS NEXT MIN.(dB)	PS ACR-N MIN.(dB)	ACR-F MIN.(dB/100m)	PS ACR-F MIN.(dB/100m)	RL MIN.(dB)
1	2.0	77	75	75	73	68	65	20.0
25	9.5	56	46.5	54	44.5	40	37	24.3
31.25	10.7	55	44.3	53	42.3	38	35	23.6
62.5	15.4	50	34.6	48	32.6	32	29	21.5
100	19.8	47	27.2	45	25.2	28	25	20.1
155	25.3	44	18.7	42	16.7	24	21	18.8
200	29	43	14	41	12	22	19	18.0
250	32.8	41	8.2	39	6.2	20	17	17.3
300	36.6	40	3.4	38	14	18	15	16.8
350	40	39	-	37	-	17	14	16.3

Order Part Number as Below.

Part Number.	Descriptions.
40030	CAT5E 24AWG Solid Bare Copper, Outdoor cable PE(UV-proof) Single Jacket Messenger Wire, Black color

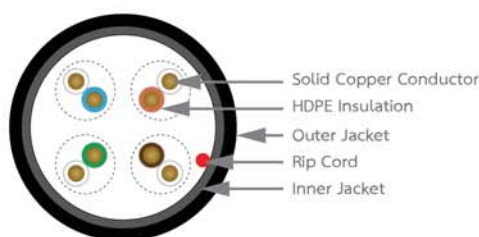
Standard

- ANSI/TIA-568.2-D CATEGORY 5E
- ISO/IEC 11801:2017 CLASS D
- EN50173-1 CATEGORY 5E
- ICEA S-90-661 CATEGORY 5E
- EN50288-3-1, NEMA WE 63.1
- IEC 61156-5, ASTM D4566-98, IEC 60332-1
- UL/CSA LISTED CM, CMR, CMP AND LSZH
- ETL TO VERIFIED TO TIA-568-C.2 CAT5E
- UL, RoHS COMPLIANT
- IEEE 802.3AF(PoE) / IEEE 802.3AT (PoE+)
- LIMIT POWER- LP UL POE SAFTY STANDARD
- 10BASE T 2.0 STANDARD
- ETHERNET CAT INDUSTRIAL STANDARD.

Applications

- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- POE, POE+(IEEE 802.3af,IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO

40026
CAT5E 24AWG Solid Bare Copper
Outdoor cable
PE(UV-proof) Double Jacket, Black color



Descriptions

The BELLCOMMS UTP Category5E for use as horizontal cable in generic cabling systems. The UTP cable has solid copper conductors insulated with HDPE. The cable is supplied with PVC,CMR PE or LSZH Jacket. All cables are approved in accordance with the most stringent test procedures. They are also 3P and ETL Verified in accordance with the following standards: ISO/IEC 11801, TIA/EIA 568B.2 and EN 50173



Construction and Material

Descriptions

Number of Pairs	4 pairs, 24AWG
Inner Jacket	Lead Free, FR PVC (Normal OD 5.3 +/- 0.2 mm.)
Sheath Material(Outer Jacket)	PE (UV-proof)
Ripcord	Under Jacket
Conductor dimension	0.51mm.(24AWG solid bare copper)
Insulation diameter	0.96 mm HDPE
Insulation Color	Blue/White-Blue, Orange/White-Orange, Green/ White-Green, Brown/White-Brown
Insulation type	Polyolefin
Cable diameter / Nominal(OD)	6.8 +/- 0.20
Weight	30 Kg/Km
Fire Classification	PVC IEC 60332-1 LSZH IEC61034, IEC60754, IEC 60332-1 LSFROH IEC61034, IEC60754, IEC 60332-3C

Electrical Characteristics

Operating frequency	1 - 350 MHz
Impedance	100 +/- 15 Ohm to 350Mhz
Mutual Capacitance	5.6 nF Max / 100m
DC Resistance	9.38 Ohm Max / 100m
DC Resistance unbalance	2% max
Insulate Resistance	5000 MΩ / Km
Dielectric Strength	1 kV / min
Capacitance Unbalance	160 pF Max / 100m
Propagation Delay	536 ns / 100m Max@ 350Mhz
Delay Skew	25 ns Max
AC Voltage	300 Volts
Test Voltage(DC, 1min)	1kV / min
Vp(nom %)	69%

Mechanical Properties

Minimum Bending Radius	Install 8 x Cable Diameter After Install 4 x Cable Diameter
Tensile Strength	9.7 MPa (1400 PSI)
Installation / Operating Temperature	-40 °C to 75 °C
Storage Temperature	-40 °C to 80 °C

Electrical Characteristics

Frequency (Mhz)	Insertion Loss (dB/100m)	NEXT MIN.(dB)	ACR-N MIN.(dB)	PS NEXT MIN.(dB)	PS ACR-N MIN.(dB)	ACR-F MIN.(dB/100m)	PS ACR-F MIN.(dB/100m)	RL MIN.(dB)
1	2.0	77	75	75	73	68	65	20.0
25	9.5	56	46.5	54	44.5	40	37	24.3
31.25	10.7	55	44.3	53	42.3	38	35	23.6
62.5	15.4	50	34.6	48	32.6	32	29	21.5
100	19.8	47	27.2	45	25.2	28	25	20.1
155	25.3	44	18.7	42	16.7	24	21	18.8
200	29	43	14	41	12	22	19	18.0
250	32.8	41	8.2	39	6.2	20	17	17.3
300	36.6	40	3.4	38	14	18	15	16.8
350	40	39	-	37	-	17	14	16.3

Order Part Number as Below.

Part Number.	Descriptions.
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40026	CAT5E 24AWG Solid Bare Copper Outdoor cable PE(UV-proof) Double Jacket, Black color
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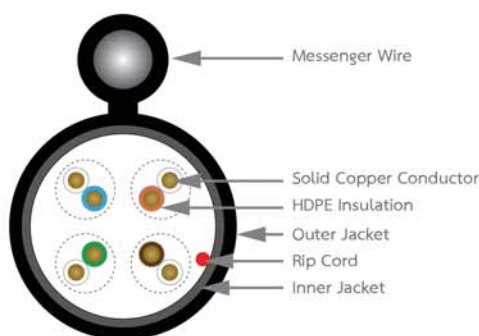
Standard

- ANSI/TIA-568.2-D CATEGORY 5E
- ISO/IEC 11801:2017 CLASS D
- EN50173-1 CATEGORY 5E
- ICEA S-90-661 CATEGORY 5E
- EN50288-3-1, NEMA WE 63.1
- IEC 61156-5, ASTM D4566-98, IEC 60332-1
- UL/CSA LISTED CM, CMR, CMP AND LSZH
- ETL TO VERIFIED TO TIA-568-C-2 CAT5E
- UL, RoHS COMPLIANT
- IEEE 802.3AF(PoE) / IEEE 802.3AT (PoE+)
- LIMIT POWER- LP UL POE SAFTY STANDARD
- 10BASE T 2.0 STANDARD
- ETHERNET CAT INDUSTRIAL STANDARD.

Applications

- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- POE, POE+(IEEE 802.3af,IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO

40027
CAT5E 24AWG Solid Bare Copper
Outdoor cable
PE(UV-proof) Double Jacket
Messenger Wire, Black color



Construction and Material

Descriptions

Number of Pairs	4 pairs, 24AWG
Inner Jacket	Lead Free, FR PVC (Nominal OD 5.3 +/- 0.2 mm.)
Sheath Material(Outer Jacket)	PE (UV-proof)
Ripcord	Under Jacket
Conductor dimension	0.51mm.(24AWG solid bare copper)
Insulation diameter	0.96 mm HDPE
Insulation Color	Blue/White-Blue, Orange/White-Orange, Green/ White-Green, Brown/White-Brown
Insulation type	Polyolefin
Cable diameter / Nominal(OD)	6.8 +/- 0.20
Weight	30 Kg/Km
Fire Classification	PVC IEC 60332-1 LSZH IEC61034, IEC60754, IEC 60332-1 LSFROH IEC61034, IEC60754, IEC 60332-3C
Messenger Wire	Galvanize Steel Wire 1.3mm.

Electrical Characteristics

Operating frequency	1 - 350 Mhz
Impedance	100 +/- 15 Ohm to 350Mhz
Mutual Capacitance	5.6 nF Max / 100m
DC Resistance	9.38 Ohm Max / 100m
DC Resistance unbalance	2% max
Insulate Resistance	5000 MΩ / Km
Dielectric Strength	1 kV / min
Capacitance Unbalance	160 pF Max / 100m
Propagation Delay	536 ns / 100m Max@ 350Mhz
Delay Skew	25 ns Max
AC Voltage	300 Volts
Test Voltage(DC, 1min)	1kV / min
Vp(nom %)	69%

Mechanical Properties

Minimum Bending Radius	Install 8 x Cable Diameter After Install 4 x Cable Diameter
Tensile Strength	16.5 MPa (2400 PSI)
Installation / Operating Temperature	-40 °C to 75 °C
Storage Temperature	-40 °C to 80 °C

Electrical Characteristics

Frequency (Mhz)	Insertion Loss (dB/100m)	NEXT MIN.(dB)	ACR-N MIN.(dB)	PS NEXT MIN.(dB)	PS ACR-N MIN.(dB)	ACR-F MIN.(dB/100m)	PS ACR-F MIN.(dB/100m)	RL MIN.(dB)
1	2.0	77	75	75	73	68	65	20.0
25	9.5	56	46.5	54	44.5	40	37	24.3
31.25	10.7	55	44.3	53	42.3	38	35	23.6
62.5	15.4	50	34.6	48	32.6	32	29	21.5
100	19.8	47	27.2	45	25.2	28	25	20.1
155	25.3	44	18.7	42	16.7	24	21	18.8
200	29	43	14	41	12	22	19	18.0
250	32.8	41	8.2	39	6.2	20	17	17.3
300	36.6	40	3.4	38	14	18	15	16.8
350	40	39	-	37	-	17	14	16.3

Order Part Number as Below.

Part Number.	Descriptions.
40027	CAT5E 24AWG Solid Bare Copper Outdoor cable PE(UV-proof) Double Jacket Messenger Wire, Black color

Standard

The BELLCOMMS UTP Category5E for use as horizontal cable in generic cabling systems. The UTP cable has solid copper conductors insulated with HDPE. The cable is supplied with PVC,CMR PE or LSZH Jacket. All cables are approved in accordance with the most stringent test procedures. They are also 3P and ETL Verified in accordance with the following standards: ISO/IEC 11801, TIA/EIA 568B.2 and EN 50173



Descriptions

- ANSI/TIA-568.2-D CATEGORY 5E
- ISO/IEC 11801:2017 CLASS D
- EN50173-1 CATEGORY 5E
- ICEA S-90-661 CATEGORY 5E
- EN50288-3-1, NEMA WE 63.1
- IEC 61156-5, ASTM D4566-98, IEC 60332-1
- UL/CSA LISTED CM, CMR, CMP AND LSZH
- ETL TO VERIFIED TO TIA-568-C.2 CAT5E
- UL, RoHS COMPLIANT
- IEEE 802.3AF(PoE) / IEEE 802.3AT (PoE+)
- LIMIT POWER- LP UL POE SAFTY STANDARD
- HDBASE T 2.0 STANDARD
- ETHERNET CAT INDUSTRIAL STANDARD.

Applications

- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- POE, POE+(IEEE 802.3af,IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO

BM001
CAT5E Modular Jack RJ45
90° 110 IDC Block, Keystone style



Original style model

Features

- Category5E compliant using PCB technology.
- Fits all Keystone style Wall Plates
- Flexible locking tabs for easy insertion/removal from the Wall Plate.
- Re-terminable IDC contacts that allow for wiring changes without damage to the unit.
- Universal colour-coding for 568A and 568B standards.
- IDC termination using 110-style tools.
- Fully compliant to AS/NZS 3080:2013, ISO/IEC 11801:2011 and ANSI/TIA/EIA-568-B. Series Connecting Hardware Standards

Construction and Material

Descriptions

Product Type	RJ45 Jack with Cover caps
Style	Keystone type
Wiring Pattern	T568B/T568A universal color code
Housing Material	High Impact Flame Retardant Plastic
Housing Flammability Rating	UL94V-0 ABS
Jack Connect	Phosphor Bronze with over 50 micron-inches gold plating
Termiante Block	90° 110 IDC, UL94V-0 Polycarbonate
Termiante Material	Phosphor Bronze with tin over 100 micron-inches nickel under plated
Durability	800 mating cycle (Modular Jack) 200 termination cycles (110 IDC Block)
Tool Cover	UL940-0 ABS
Accept Wire Size	26AWG-22AWG solid and stranded wire
Compliant	UL and Intertek Channel test
Certified	Lead-free and RoHS compliant

Electrical Characteristics

Descriptions

Dielectric Strength	1,000V RMS at 60Hz for 1minute
Current Rating	1.5Amp maximum
Insulation Resistance	10MΩ minimum
Contact Resistance	2MΩ per contact
Temperature Rang(Work/Storage)	-10 °C to + 60 °C / -40 °C to + 70 °C
Transmission Performance	Exceeds ISO/IEC 11801 Class E AS/NZS 3080:2013 Class E

Electrical Characteristics

Frequency (Mhz)	Attenuation (dB)	NEXT (dB)	PS NEXT (dB)	FEXT (dB)	Return Loss (dB)
1	0.05	86.0	84.0	83.5	54.2
4	0.05	72.7	71.0	73.1	47.8
8	0.05	67.0	65.0	67.5	42.8
10	0.05	65.0	63.0	65.5	41.0
16	0.10	60.7	59.0	61.5	37.2
20	0.10	60.0	57.1	60.0	35.5
25	0.10	57.0	55.1	58.0	34.0
31.25	0.10	55.0	53.1	56.0	32.0
62.5	0.15	49.0	46.7	50.2	26.2
100	0.20	44.5	41.9	46.0	23.0

Order Part Number as Below.

Part Number.	Descriptions.
BM001	CAT5E Modular Jack RJ45 90° 110 IDC Block, Keystone style

Descriptions

The BELLCOMMS Bringing the easy termination of the 110 style block and the proven reliability of BELLCOMMS modular jack interface together on a PC board provides a controlled connection design that yeilds superior performance. 110Connect System jacks are available in Category5E performance, T568A, T568B, and both shielded and unshielded versions to meet every cabling requirement. These jacks accept 22-26 AWG solid or 20-26 AWG 7-strand conductors with a maximum insulation diameter of 0.70-1.60mm.



Standard

- ANSI/TIA-568.2-D CATEGORY 5E
- ISO/IEC 11801:2017 CLASS D
- EN50173-1 CATEGORY 5E
- T568B/T568A UNIVERSAL COLOR PATTERN
- UL LISTED AND INTERTEK TEST
- LEAD-FREE & RoHS COMPLIANT BY TUV
- TIA/EIA TSB-40
- TERMINATE 110 IDC, KNONE
- ANGLE 900/1800
- Housing UL94V-0 ABS
- Terminate block UL94V-0 Polycarbonate
- Tool less Type UL94V-0 ABS

Applications

- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- POE, POE+(IEEE 802.3af, IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO

BM019
CAT5E Modular Jack RJ45, Shutter
180° 110 IDC Block, Keystone style

**180°
110 IDC
Block**



Features

- Category5E compliant using PCB technology.
- Fits all Keystone style Wall Plates
- Flexible locking tabs for easy insertion/removal from the Wall Plate.
- Re-terminable IDC contacts that allow for wiring changes without damage to the unit.
- Universal colour-coding for 568A and 568B standards.
- IDC termination using 110-style tools.
- Fully compliant to AS/NZS 3080:2013, ISO/IEC 11801:2011 and ANSI/TIA/EIA-568-B. Series Connecting Hardware Standards

Construction and Material

Descriptions

Product Type	RJ45 Jack with Cover caps and Shutter
Style	Keystone type
Wiring Pattern	T568B/T568A universal color code
Housing Material	High Impact Flame Retardant Plastic
Housing Flammability Rating	UL94V-0 ABS
Jack Connect	Phosphor Bronze with over 50 micron-inches gold plating
Termiante Block	180° 110 IDC, UL94V-0 Polycarbonate
Termiante Material	Phosphor Bronze with tin over 100 micron-inches nickel under plated
Durability	800 mating cycle (Modular Jack) 200 termination cycles (110 IDC Block)
Tool Cover	UL940-0 ABS
Accept Wire Size	26AWG-22AWG solid and stranded wire
Shutter Material	UL940-0 ABS
Compliant	UL and Intertek Channel test
Certified	Lead-free and RoHS compliant

Electrical Characteristics

Descriptions

Dielectric Strength	1,000V RMS at 60Hz for 1minute
Current Rating	1.5Amp maximum
Insulation Resistance	10MΩ minimum
Contact Resistance	2MΩ per contact
Temperature Rang(Work/Storage)	-10 °C to + 60 °C / -40 °C to + 70 °C
Transmission Performance	Exceeds ISO/IEC 11801 Class E AS/NZS 3080:2013 Class E

Technical Specifications

Frequency (Mhz)	Attenuation (dB)	NEXT (dB)	PS NEXT (dB)	FEXT (dB)	Return Loss (dB)
1	0.05	86.0	84.0	83.5	54.2
4	0.05	72.7	71.0	73.1	47.8
8	0.05	67.0	65.0	67.5	42.8
10	0.05	65.0	63.0	65.5	41.0
16	0.10	60.7	59.0	61.5	37.2
20	0.10	60.0	57.1	60.0	35.5
25	0.10	57.0	55.1	58.0	34.0
31.25	0.10	55.0	53.1	56.0	32.0
62.5	0.15	49.0	46.7	50.2	26.2
100	0.20	44.5	41.9	46.0	23.0

Order Part Number as Below.

Part Number.	Descriptions.
BM019	CAT5E Modular Jack RJ45, Shutter 180° 110 IDC Block, Keystone style

Descriptions

The BELLCOMMS, This model it have shutter window in front of RJ45 hole for protected the dust and Bringing the easy termination of the 110-style block and the proven reliability of BELLCOMMS modular jack interface together on a PC board provides a controlled connection design that yields superior performance. 110Connect System jacks are available in Category5E performance, T568A, T568B, and both shielded and unshielded versions to meet every cabling requirement. These jacks accept 22-26 AWG solid or 20-26 AWG 7-strand conductors with a maximum insulation diameter of 0.70-1.60mm.



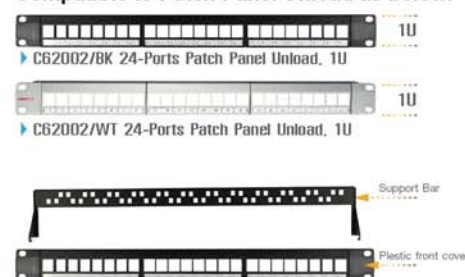
Standard

- ANSI/TIA-568.2-D CATEGORY 5E
- ISO/IEC 11801:2017 CLASS D
- EN50173-1 CATEGORY 5E
- T568B/T568A UNIVERSAL COLOR PATTERN
- UL LISTED AND INTERTEK TEST
- LEAD-FREE & RoHS COMPLIANT BY TUV
- TIA/EIA TSB-40
- TERMINATE 110 IDC, KNONE
- ANGLE 900/1800
- Housing UL94V-0 ABS
- Terminate block UL94V-0 Polycarbonate
- Tool less Type UL94V-0 ABS

Applications

- 1000 BASE-T (IEEE 802.3ab GIGABIT ETHERNET)
- 100 BASE-TX (IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- POE, POE+ (IEEE 802.3af, IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO

Compatible to Patch Panel Unload as below.



**BM003, BCM48P, BM004
CAT5E Patch Panel
110 IDC Block**



▶ **BM003 24Ports Patch Panel, 1U, CAT-5E**



▶ **BCM48P 48Ports Patch Panel, 1U, CAT-5E**



▶ **BM004 48Ports Patch Panel, 2U, CAT-5E**

**110 IDC
Block**

Features

- Category5E compliant using PCB technology.
- Fits all 19-inch rack
- Flexible locking wire with Cable Management Support Bar
- Re-terminable IDC contacts that allow for wiring changes without damage to the unit.
- Universal colour-coding for 568A and 568B standards.
- IDC termination using 110-style tools.
- Fully compliant to AS/NZS 3080:2013, ISO/IEC 11801:2011 and ANSI/TIA/EIA-568-B. Series Connecting Hardware Standards

Construction and Material

Descriptions

Style of Modular Panel	PCB RJ45 Connector
Label	Aluminium light weight steel with hair line classic shine
Cabling Organizing	White paper insert within clear plastic cover
Wiring Pattern	Cable support Bar and Cable ties
Jack Connect	T568B/T568A universal color code
Terminante Block	Phosphor Bronze with over 50 micron-inches gold plating
Terminante Material	Dual Type 110-IDC or KRONE Connecting tools, UL940-0 ABS
Durability	Phosphor Bronze with tin over 100 micron-inches nickel under plated
	800 mating cycle (Modular Jack)
	200 termination cycles (110 IDC Block)
Tool Cover	UL940-0 ABS
Accept Wire Size	26AWG-22AWG solid and stranded wire
Compliant	UL and Intertek Channel test
Certified	Lead-free and RoHS compliant

Electrical Characteristics

Descriptions

Dielectric Strength	1,000V RMS at 60Hz for 1minute
Current Rating	1.5Amp maximum
Insulation Resistance	10M Ω minimum
Contact Resistance	2M Ω per contact
Temperature Rang(Work/Storage)	-10 °C to + 60 °C / -40 °C to + 70 °C
Transmission Performance	Exceeds ISO/IEC 11801 Class E AS/NZS 3080:2013 Class E

Electrical Characteristics

Frequency (Mhz)	Attenuation (dB)	NEXT (dB)	PS NEXT (dB)	NEXT (dB)	Return Loss (dB)
1	0.05	86.0	84.0	83.5	54.2
4	0.05	72.7	71.0	73.1	47.8
8	0.05	67.0	65.0	67.5	42.8
10	0.05	65.0	63.0	65.5	41.0
16	0.10	60.7	59.0	61.5	37.2
20	0.10	60.0	57.1	60.0	35.5
25	0.10	57.0	55.1	58.0	34.0
31.25	0.10	55.0	53.1	56.0	32.0
62.5	0.15	49.0	46.7	50.2	26.2
100	0.20	44.5	41.9	46.0	23.0

Order Part Number as Below.

Part Number.	Descriptions.
BM003	CAT5E Patch Panel 24 Port, Height 1.75"(1U)
BCM48P	CAT5E Patch Panel 48 Port, Height 1.75"(1U)
BM004	CAT5E Patch Panel 48 Port, Height 3.50"(2U)

Descriptions

The BELLCOMMS Category5E Patch Panels are versatile and economic means of cross connection between vertical and horizontal cabling or direct hub to horizontal cabling. The panel is available in 12, 24, and 48 port versions. The cable termination is provided by the popular 110 Insulation Displacement Contact (IDC). Labeling is provided on both front and rear for easy identification. The product is designed to be mounted on a 19-inch rack.



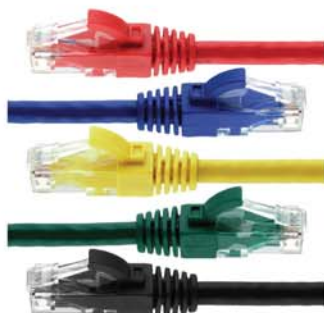
Standard

- ANSI/TIA-568.2-D CATEGORY 5E
- ISO/IEC 11801:2017 CLASS D
- EN50173-1 CATEGORY 5E
- T568B / T568A UNIVERSAL COLOR PATTERN
- UL LISTED AND INTERTEK TEST
- LEAD-FREE & RoHS COMPLIANT BY TUV
- TIA/EIA TSB-40
- TERMINATE 110, KNONE
- ANGLE 1800
- UL 1863
- PC UL94V-0

Applications

- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- POE, POE+(IEEE 802.3af, IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO

**BM004, BM006, BM007
CAT5E Patch Cord Cable
RJ45 to RJ45 plug**



7/0.20mm Stranded wire conductor

Features

- High performance Cat5e 4-pairs UTP
- RJ45 Male to RJ45 Male Modular Plug
- RJ45 Plug Contact plate 50 micron gold
- 100% bare copper Conductor
- 24 AWG Conductor with Stranded Wire
- 100% high quality stable performance
- Fitted with strain relief boots
- 100% tested wiring sequence and continuity
- Excellent attenuation and cross talk characteristics.
- More flexible and durable.

Construction and Material

Descriptions

Cable	Stranded wire flexible UTP Category 5e cable
Color	White, Red, Green, Blue, Yellow
Connector	Category 5e RJ45 Modular Plugs with 50 micron-inches gold plating over 100 micron-inches nickel under plated and Phosphor Bronze
Wire Size	24 AWG
Slim Boot	Molding from manufacturer are designed to protect Plugs and Cables
Insulation diameter	0.96 mm HDPE
Insulation Color	Blue/White-Blue, Orange/White-Orange, Green/ White-Green, Brown/White-Brown
Cable diameter	4 pairs 7/0.20mm conductor dimension
Wiring system	T568A or T568B universal
Q.C.	100% factory assembly testing cable
Standard	UL listed and follow In terteK Channels Test
Certified	Lead-free and RoHS compliant

Electrical Characteristics

Frequency (Mhz)	Attenuation (dB)	CROSS TALK (dB)	ELFEXT (dB)	PS NEXT (dB)	PS ELFEXT (dB)	Return Loss (dB)
1	3.2	65.3	63.8	20.0	62.3	62.3
16	8.2	47.3	38.7	25.0	44.3	44.3
31.25	11.7	42.9	33.9	23.6	39.9	39.9
62.5	17.0	38.4	27.8	21.5	35.4	35.4
100	22.0	35.3	23.8	20.1	32.3	32.3

Descriptions

The BELLCOMMS Enhanced Category 5 RJ45 Patch Cords are designed for use at either the workstation or cabinet environment. The Patch cords come in several sizes and colors. Each end is fitted with a high quality Modular RJ45 plugs, which is terminated with a cover boot to prevent snags and damage to the latch of the plug, this is especially helpful when removing and running cords in either frame or cabinet. Patch cords lengths are usually 10 meters or less, to meet the EIA/TIA or ISO standards for structured cabling.



Standard

- ANSI/TIA-568.2-D CATEGORY 5E
- ISO/IEC 11801:2017 CLASS D
- EN50173-1 CATEGORY 5E
- T568B/T568A UNIVERSAL COLOR PATTERN
- UL LISTED AND INTERTEK TEST
- LEAD-FREE & RoHS COMPLIANT BY TUV

Applications

- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- POE, POE+(IEEE 802.3af, IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO

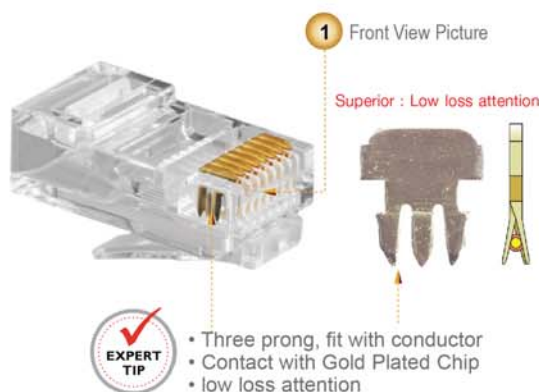
Order Part Number as Below.

Part Number.	Descriptions.
BM004 - XX	CAT5E Patch Cord Cable, RJ45 to RJ45, 1 meter
BM006 - XX	CAT5E Patch Cord Cable, RJ45 to RJ45, 2 meter
BM007 - XX	CAT5E Patch Cord Cable, RJ45 to RJ45, 3 meter

Color Code: XX = BL-Blue, YL-Yellow, RD-Red

BM010 CAT5E Modular Plug RJ45

Three
Prong



Features

- Strain relief construction for flexible movement, durability, and fit.
- Reduces cross talk and interference
- Crystal head shrapnel has been strength
- More resistant to bending
- Sharpnel bengind more than 20 times without breaking
- Thickened trigeminal chip to suppress a high success rate
- A larger contact area
- Transfer faster more stable
- The structure of 3 prong pins enables high reliability connection for both stranded and solid cable
- High-strength PC material prevents connector breakage

Construction and Material

Descriptions

Type	Cat5e Modular Plug RJ45
Housing	Polycarbonate, UL94V-0
Contact	Three prong(3 contact point), Phosphor Bronze with 50 micron-inches gold plating
Accept Wire	26AWG-22AWG Solid and Strand Wire
Temperature	Operating Temperature:-40 °c~+125 °c
Electrical Test	Dielectric Withstanding Voltage test 1000V/DC Insulation Resistance: >500MΩ Contact Resistance:<20MΩ
Mechanical	Cable-to-plug tensile strength-20LBs(89N) min. Durability:2000 mating cycles.
Complies Standard	UL listed and follow In terteK Channels Test
Certified	Lead-free and RoHS compliant

Descriptions

The BELLCOMMS Enhance Category5E Modular Plug As you know, when standard 8 position modular plug mated with PCB mounted 8 position jack, it cannot meet the CATEGORY5E NEXT (Near End Cross Talk) requirement by TIA/EIA TSB40-A. Now we have designed high performance 8 position plugs with shielded or non-shielded version to meet TIA/EIA TSN40-A test specification for serving our customer.

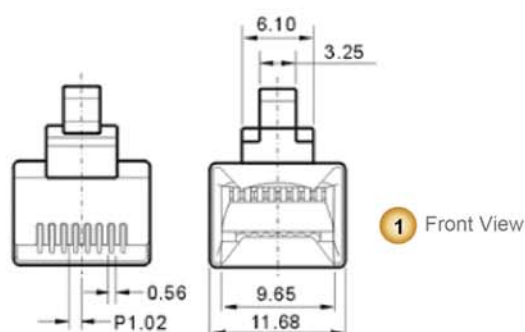


Standard

- ANSI/TIA-568.2-D CATEGORY 5E
- ISO/IEC 11801:2017 CLASS D
- EN50173-1 CATEGORY 5E
- UL/cUL LISTED AND INTERTEK TEST
- LEAD-FREE & RoHS COMPLIANT BY TUV
- HOUSING UL-94V-0 POLYCARBONATE

Applications

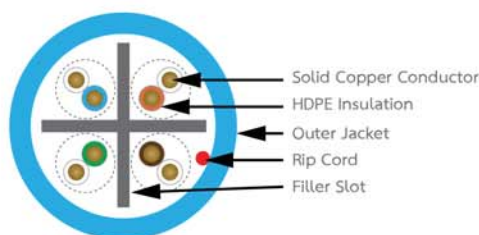
- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- POE, POE+(IEEE 802.3af/IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO
- IEEE 802.3AF(PoE) / IEEE 802.3AT (PoE+)
- LIMIT POWER- LP UL POE SAFTY STANDARD
- HDBASE T 2.0 STANDARD
- ETHERNET CAT INDUSTRIAL STANDARD.



Order Part Number as Below.

Part Number.	Descriptions.
BM010	CAT5E Modular Plug RJ45

C61000
CAT6 24AWG Solid Bare Copper
Indoor cable
CM(FR-PVC) Jacket



Descriptions

The BELLCOMMS 250Mhz Series Category6 Cable is a superior product delivering the best network performance when used in conjunction with other BELLCOMMS Series Category6 products. The Cable is constructed of 4 pairs with solid and insulated copper conductors, and is UL CM fire rated. It is designed for use in horizontal cabling and comes in a 305m (1000ft) easy pull out box.



Standard

- ANSI/TIA-568-C.2 CATEGORY 6
- ANSI/TIA-568.2-D CATEGORY 6
- IEEE 802.3bz support 2.5Gbps/5Gbps
- ISO/IEC 11801:2017 CLASS E
- EN50173-1 CATEGORY 6
- ICEA S-102-700 CATEGORY 6
- EN50288-6-1, NEMA WC 66,UL1666
- IEC 61156-5, ASTM D4566-98, IEC 60332-1-2
- UL/CSA LISTED CM, CMR, CMP AND LSZH
- ETL TO VERIFIED TO TIA-568-C.2 CAT6
- UL, INTERTEK, RoHS COMPLIANT

Applications

- STRUCTURE CABLING(BACKBONE AND HORIZONTAL)
- 2.5G / 5G Base-T(IEEE802.3bz)
- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 1000 BASE-TX(TIA/EIA-854)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 52/155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- IEEE 802.3 i/u/ab.
- CDDI / ATM / TOKEN RING / VOIP
- POE, POE+(IEEE 802.3af,IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- IEEE 802.3AF(PoE) / IEEE 802.3AT (PoE+)
- LIMIT POWER- LP UL POE SAFTY STANDARD
- HDBASE T 2.0 STANDARD
- ETHERCAT INDUSTRIAL STANDARD.
- ANALOG & DIGITAL for DATA, VIDEO&AUDIO APPLICATION

(UL/NEC)Flame Rating	Jacket
CM	: FR-PVC
Insulation	Jacket
CM	: FR-PVC

Construction and Material

Descriptions

Number of Pairs	4 pairs, 24AWG
Sheath Material(Outer Jacket)	CM(FR-PVC)
Filler slot	FRPE isolator separator
Ripcord	Under Jacket
Conductor dimension	0.54mm.(24AWG solid bare copper)
Insulation thick	1.0mm HDPE
Insulation Color	Blue/White-Blue, Orange/White-Orange, Green/ White-Green, Brown/White-Brown
Insulation type	Polyolefin
Cable diameter / Nominal(OD)	6.1 +/- 0.20mm.
Weight	12 Kg/Km

Electrical Characteristics

Operating frequency	1 - 250 MHz
Impedance	100 +/- 5 Ohm to 250Mhz
Mutual Capacitance	5.6 nF Max / 100m
DC Resistance	9.38 Ohm Max / 100m
DC Resistance unbalance	5% max
Insulate Resistance	5000 MΩ / Km
Dielectric Strength	1 kV / min
Capacitance Unbalance	160 pF Max / 100m
Propagation Delay	536 ns / 100m Max@ 250Mhz
Delay Skew	45 ns Max
Voltage	300 Volts AC or DC
Test Voltage(DC, 1min)	1kV / min

Mechanical Properties

Minimum Bending Radius	Install 8 x Cable Diameter. After Install 4 x Cable Diameter
Tensile Strength	110N(25lbf)
Ultimate Breaking Strength	>400N (90lbf)
Installation / Operating Temperature	-20 °C to 60 °C
Storage Temperature	-20 °C to 80 °C

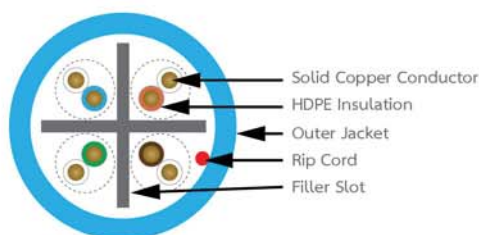
Electrical Characteristics

Frequency (Mhz)	Insertion Loss (dB/100m)	NEXT MIN.(dB)	ACR-N MIN.(dB)	PS NEXT MIN.(dB)	PS ACR-N MIN.(dB)	ACR-F MIN.(dB/100m)	PS ACR-F MIN.(dB/100m)	RL MIN.(dB)
1	2.0	74.3	72.2	76.0	73.5	69.0	66.0	20.0
31.25	10.7	51.9	40.7	54.0	42.8	38.5	35.6	23.7
62.5	15.4	47.4	32.3	52.2	33.0	33.0	29.5	21.5
100	19.8	44.3	24.5	49.8	25.6	28.5	25.8	20.1
155	20.2	41.2	19.7	39.2	17.2	25.0	23.0	18.8
200	29.0	39.8	10.4	37.8	12.3	23.5	21.7	18.0
250	32.8	38.3	5.1	36.3	6.5	22.8	18.0	17.3

Order Part Number as Below.

Part Number.	Descriptions.
C61000	CAT6, 24AWG Solid Bare Copper,Indoor cable, CM(FR-PVC) Jacket, Blue color(305M./Box)
C61000-01	CAT6, 24AWG Solid Bare Copper,Indoor cable, CM(FR-PVC) Jacket, Blue color(100M./Box)
C61000-02	CAT6, 24AWG Solid Bare Copper,Indoor cable, CM(FR-PVC) Jacket, White color(305M./Box)
C61000-03	CAT6, 24AWG Solid Bare Copper,Indoor cable, CM(FR-PVC) Jacket, White color(100M./Box)

C61001
CAT6 23AWG Solid Bare Copper
Indoor cable
CMR(FR-PVC) Jacket



Descriptions

The BELLCOMMS 600Mhz Series Category6 Cable is a superior product delivering the best network performance when used in conjunction with other BELLCOMMS Series Category6 products. The Cable is constructed of 4 pairs with solid and insulated copper conductors, and is UL CMR fire rated. It is designed for use in horizontal cabling and comes in a 305m (1000ft) easy pull out box.

BELLCOMMS C61001



Construction and Material

Number of Pairs	4 pairs, 23AWG
Sheath Material(Outer Jacket)	CMR(FR-PVC)
Filler slot	FRPE Isolator separator
Ripcord	Under Jacket
Conductor dimension	0.56mm.(23AWG solid bare copper)
Insulation thick	0.99mm HDPE
Insulation Color	Blue/White-Blue, Orange/White-Orange, Green/ White-Green, Brown/White-Brown
Insulation type	Polyolefin
Cable diameter / Norminal(OD)	6.40 +/- 0.20mm.
Weight	13 Kg/Km

Descriptions

Electrical Characteristics

Operating frequency	1 - 600 Mhz
Impedance	100 +/- 5 Ohm to 600Mhz
Mutual Capacitance	5.6 nF Max / 100m
DC Resistance	6.65 Ohm Max / 100m
DC Resistance unbalance	5% max
Insulate Resistance	5000 MΩ / Km
Dielectric Strength	1 kV / min
Capacitance Unbalance	160 pF Max / 100m
Propagation Delay	536 ns / 100m Max@ 600Mhz
Delay Skew	30 ns Max, NVP 69%
Voltage	300 Volts AC or DC
Test Voltage(DC, 1min)	1kV / min

Mechanical Properties

Minimum Bending Radius	Install 8 x Cable Diameter After Install 4 x Cable Diameter
Tensile Strength	110N(25lbf)
Ultimate Breaking Strength	>400N (90lbf)
Installation / Operating Temperture	-20 °C to 60 °C
Storage Temperature	-20 °C to 80 °C

Electrical Characteristics

Frequency (Mhz)	Insertion Loss (dB/100m)	NEXT MIN.(dB)	ACR-N MIN.(dB)	PS NEXT MIN.(dB)	PS ACR-N MIN.(dB)	ACR-F MIN.(dB/100m)	PS ACR-F MIN.(dB/100m)	RL MIN.(dB)
1	2.0	78.0	76.0	76.0	73.5	69.0	66.0	20.0
31.25	10.7	56.0	45.3	54.0	42.8	38.5	35.6	23.6
62.5	15.4	50.5	35.1	52.2	33.0	33.0	29.5	21.5
100	19.8	47.5	27.7	49.8	25.6	28.5	25.8	20.1
155	25.1	45.0	19.7	47.2	17.2	25.0	23.0	18.8
200	29.0	44.4	15.4	45.0	12.3	22.5	21.7	18.0
250	32.0	46.0	10.9	45.3	6.5	24.3	18.0	25.3
300	36.4	41.5	4.9	40.7	1.9	18.5	15.6	16.8
400	43.0	38.5	-	37.5	-	16.5	13.7	15.9
500	51.8	36.7	-	34.5	-	13.5	10.7	14.9
600	54.5	39.6	-	36.6	-	15.1	10.0	22.8

Order Part Number as Below.

Part Number.	Descriptions.
C61001	CAT6, 23AWG Solid Bare Copper,Indoor cable, CMR(FR-PVC) Jacket, Blue color

Standard

- ANSI/TIA-568-C.2 CATEGORY 6
- ANSI/TIA-568.2-D CATEGORY 6
- IEEE 802.3bz support 2.5Gbps/5Gbps
- ISO/IEC 11801:2017 CLASS E
- EN50173-1 CATEGORY 6
- ICEA S-102-700 CATEGORY 6
- EN50288-6-1, NEMA WC 66,UL1666
- IEC 61156-5, ASTM D4566-98, IEC 60332-1-2
- UL/CSA LISTED CM, CMR, CMP AND LSZH
- ETL TO VERIFIED TO TIA-568-C.2 CAT6
- UL, INTERTEK, RoHS COMPLIANT

Applications

- STRUCTURE CABLING(BACKBONE AND HORIZONTAL)
- 10G BASE-T(IEEE 802.3an 10GIGABIT ETHERNET, 55m.)
- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 1000 BASE-TX(TIA/EIA-854)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 52/155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- IEEE 802.3 i/u/ab.
- CDDI / ATM / TOKEN RING / VOIP
- POE, POE+(IEEE 802.3af,IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- IEEE 802.3AF(PoE) / IEEE 802.3AT (PoE+)
- LIMIT POWER- LP UL POE SAFTY STANDARD
- HDBASE T 2.0 STANDARD
- ETHERCAT INDUSTRIAL STANDARD.
- ANALOG & DIGITAL for DATA, VIDEO&AUDIO APPLICATION

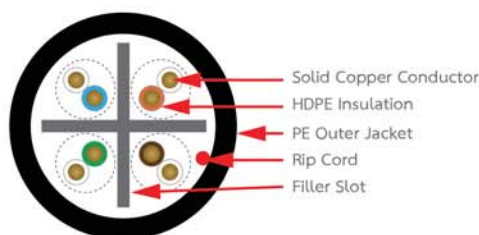
(UL/NEC)Flame Rating

CM,CMR	Jacket : FR-PVC
CMP	: FR PVC(Low Smoke)
LSZH	: FR-LSZH

Insulation

CM,CMR	Jacket : FR-PVC
CMP	: FEP

C61005
CAT6 23AWG Solid Bare Copper
Outdoor Cable
PE Single Jacket Jacket



Descriptions

The BELLCOMMS 600Mhz Series Category6 Cable is a superior product delivering the best network performance when used in conjunction with other BELLCOMMS Series Category6 products. The Cable is constructed of 4 pairs with solid and insulated copper conductors, and is UL CMX fire rated. It is designed for use in horizontal cabling and comes in a 305m (1000ft) easy pull out box.



Construction and Material

Descriptions

Number of Pairs	4 pairs, 23AWG
Sheath Material(Outer Jacket)	PE(UV-Proof Black Polyethylene), CMX
Filler slot	FRPE isolator separator
Ripcord	Under Jacket
Conductor dimension	0.56mm.(23AWG solid bare copper)
Insulation thick	0.99mm HDPE
Insulation Color	Blue/White-Blue, Orange/White-Orange, Green/ White-Green, Brown/White-Brown
Insulation type	Polyolefin
Cable diameter / Nominal(OD)	6.10 +/- 0.20mm.
Weight	11.89 Kg/305M

Electrical Characteristics

Operating frequency	1 - 600 MHz
Impedance	100 +/- 5 Ohm to 600Mhz
Mutual Capacitance	5.6 nF Max / 100m
DC Resistance	6.65 Ohm Max / 100m
DC Resistance unbalance	5% max
Insulate Resistance	5000 MΩ / Km
Dielectric Strength	1 kV / min
Capacitance Unbalance	160 pF Max / 100m
Propagation Delay	536 ns / 100m Max@ 600Mhz
Delay Skew	30 ns Max, NVP 69%
Voltage	300 Volts AC or DC
Test Voltage(DC, 1min)	1kV / min

Mechanical Properties

Minimum Bending Radius	Install 8 x Cable Diameter After Install 4 x Cable Diameter
Tensile Strength	9.7 MPa(1400PSI)
Installation / Operating Temperature	-40 °C to 75 °C
Storage Temperature	-40 °C to 80 °C

Electrical Characteristics

Frequency (Mhz)	Insertion Loss (dB/100m)	NEXT MIN.(dB)	ACR-N MIN.(dB)	PS NEXT MIN.(dB)	PS ACR-N MIN.(dB)	ACR-F MIN.(dB/100m)	PS ACR-F MIN.(dB/100m)	RL MIN.(dB)
1	2.0	78.0	76.0	76.0	73.5	69.0	66.0	20.0
31.25	10.7	56.0	45.3	54.0	42.8	38.5	35.6	23.6
62.5	15.4	50.5	35.1	52.2	33.0	33.0	29.5	21.5
100	19.8	47.5	27.7	49.8	25.6	28.5	25.8	20.1
155	25.1	45.0	19.7	47.2	17.2	25.0	23.0	18.8
200	29.0	44.4	15.4	45.0	12.3	22.5	21.7	18.0
250	32.0	46.0	10.9	45.3	6.5	24.3	18.0	25.3
300	36.4	41.5	4.9	40.7	1.9	18.5	15.6	16.8
400	43.0	38.5	-	37.5	-	16.5	13.7	15.9
500	51.8	36.7	-	34.5	-	13.5	10.7	14.9
600	54.5	39.6	-	36.6	-	15.1	10.0	22.8

Order Part Number as Below.

Part Number.	Descriptions.
C61005	CAT6, 23AWG Solid Bare Copper, Outdoor Cable, PE Jacket, Black Color

Standard

- ANSI/TIA-568-C.2 CATEGORY 6
- ANSI/TIA-568-2-D CATEGORY 6
- ISO/IEC 11801:2002 CLASS E
- EN50173-1 CATEGORY 6
- ICEA S-102-700 CATEGORY 6
- EN50288-6-1, NEMA WC 66,UL1666
- IEC 61156-5, ASTM D4566-98, IEC 60332-1-2
- UL/CSA LISTED CM, CMR, CMP AND LSZH
- ETL TO VERIFIED TO TIA-568-C.2 CAT6
- UL, INTERTEK, RoHS COMPLIANT

Applications

- STRUCTURE CABLING(BACKBONE AND HORIZONTAL)
- 10G BASE-T(IEEE 802.3an 10GIGABIT ETHERNET, 55m.)
- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 1000 BASE-TX(TIA/EIA-854)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 52/155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- IEEE 802.3 i/u/ab.
- CDDI / ATM / TOKEN RING / VOIP
- POE, POE+(IEEE 802.3af,IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- IEEE 802.3AF(PoE) / IEEE 802.3AT (PoE+)
- LIMIT POWER- LP UL POE SAFTY STANDARD
- HDBASE T 2.0 STANDARD
- ETHERCAT INDUSTRIAL STANDARD.
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO

C61003
CAT6 23AWG Solid Bare Copper
Outdoor Cable
Double PE Jacket



Descriptions

The BELLCOMMS 600Mhz Series Category6 Cable is a superior product delivering the best network performance when used in conjunction with other BELLCOMMS Series Category6 products. The Cable is constructed of 4 pairs with solid and insulated copper conductors, and is UL444 CMX fire rated. It is designed for use in horizontal cabling and comes in a 305m (1000ft) easy pull out box and reel.



Construction and Material

Descriptions

Number of Pairs	4 pairs, 23AWG
Inner Jacket	Lead free (FR-PVC)
Outer Jacket	PE (UV-proof Black Polyethylene), CMX
Filler slot	FRPE isolator separator
Ripcord	Under Jacket
Conductor dimension	0.56mm.(23AWG solid bare copper)
Insulation thick	0.99mm HDPE
Insulation Color	Blue/White-Blue, Orange/White-Orange, Green/ White-Green, Brown/White-Brown
Insulation type	Polyolefin
Cable diameter / Nominal(OD)	7.0 +/- 0.30mm.
Weight	23 Kg/Km

Electrical Characteristics

Operating frequency	1 - 600 Mhz
Impedance	100 +/- 5 Ohm to 600Mhz
Mutual Capacitance	5.6 nF Max / 100m
DC Resistance	6.65 Ohm Max / 100m
DC Resistance unbalance	2.5% max
Insulate Resistance	5000 MΩ / Km
Dielectric Strength	1 kV / min
Capacitance Unbalance	160 pF Max / 100m
Propagation Delay	536 ns / 100m Max@ 600Mhz
Delay Skew	30 ns Max
Voltage	300 Volts AC or DC
Test Voltage(DC, 1min)	1kV / min

Mechanical Properties

Minimum Bending Radius	Installation 8 x Cable Diameter Operation 4 x Cable Diameter
Tensile Strength	9.7 MPa(1400 PSI)
Installation / Operating Temperature	-40 °C to 75 °C
Storage Temperature	-40 °C to 80 °C

Standard

- ANSI/TIA-568.2-D CATEGORY 6
- IEEE 802.3bz support 2.5Gbps/5Gbps
- ISO/IEC 11801:2017 CLASS E
- EN50173-1 CATEGORY 6
- ICEA S-102-700 CATEGORY 6
- EN50288-6-1, NEMA WC 66,UL1666
- IEC 61156-5, ASTM D4566-98, IEC 60332-1-2
- UL/CSA LISTED UL444 CMX, CMP, CMP AND LSZH
- ETL TO VERIFIED TO TIA-568.2-D CAT6
- UL, INTERTEK, RoHS COMPLIANT

Applications

- STRUCTURE CABLING(BACKBONE AND HORIZONTAL)
- 10G BASE-T(IEEE 802.3an 10GIGABIT ETHERNET, 55m.)
- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 1000 BASE-TX(TIA/EIA-854)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 52/155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- IEEE 802.3 i/u/ab.
- CDDI / ATM / TOKEN RING / VOIP
- POE, POE+(IEEE 802.3af,IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- IEEE 802.3AF(PoE) / IEEE 802.3AT (PoE+)
- LIMIT POWER- LP UL POE SAFTY STANDARD
- HDBASE T 2.0 STANDARD
- ETHERCAT INDUSTRIAL STANDARD.
- ANALOG & DIGITAL for DATA, VIDEO&AUDIO APPLICATION

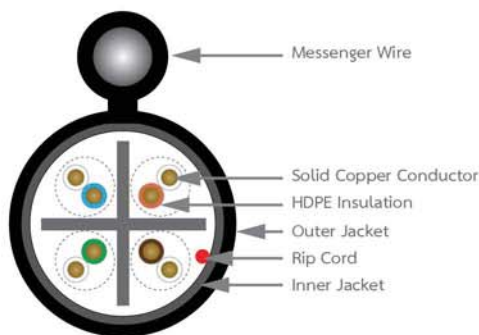
Electrical Characteristics

Frequency (Mhz)	Insertion Loss (dB/100m)	NEXT MIN.(dB)	ACR-N MIN.(dB)	PS NEXT MIN.(dB)	PS ACR-N MIN.(dB)	ACR-F MIN.(dB/100m)	PS ACR-F MIN.(dB/100m)	RL MIN.(dB)
1	2.0	78.0	76.0	76.0	73.5	69.0	66.0	20.0
31.25	10.7	56.0	45.3	54.0	42.8	38.5	35.6	23.6
62.5	15.4	50.5	35.1	52.2	33.0	33.0	29.5	21.5
100	19.8	47.5	27.7	49.8	25.6	28.5	25.8	20.1
155	25.1	45.0	19.7	47.2	17.2	25.0	23.0	18.8
200	29.0	44.4	15.4	45.0	12.3	22.5	21.7	18.0
250	32.0	42.9	10.9	43.2	6.5	21.2	18.0	17.3
300	36.4	41.5	4.9	40.7	1.9	18.5	15.6	16.8
400	43.0	38.5	-	37.5	-	16.5	13.7	15.9
500	51.8	36.7	-	34.5	-	13.5	10.7	14.9
600	54.5	36.5	-	34.5	-	13.0	10.0	14.7

Order Part Number as Below.

Part Number.	Descriptions.
C61003	CAT6, 23AWG Solid Bare Copper, Outdoor Cable, Double PE Jacket, Black color

C61004
CAT6 23AWG Solid Bare Copper
Outdoor Cable
Double PE Jacket with Messenger Wire



Descriptions

The BELLCOMMS 600Mhz Series Category6 Cable is a superior product delivering the best network performance when used in conjunction with other BELLCOMMS Series Category6 products. The Cable is constructed of 4 pairs with solid and insulated copper conductors, and is UL444 CMX fire rated. It is designed for use in horizontal cabling and comes in a 305m (1000ft) easy pull out box and reel.



Construction and Material

Descriptions

Number of Pairs	4 pairs, 23AWG
Inner Jacket	Lead free(FR-PVC)
Outer Jacket	PE (UV-proof Black Polyethylene), CMX
Messenger Wire	Galvanize Steel Wire 1.3mm. +/-0.1mm.
Filler slot	FRPE isolator separator
Ripcord	Under Jacket
Conductor dimension	0.56mm.(23AWG solid bare copper)
Insulation thick	0.99mm HDPE
Insulation Color	Blue/White-Blue, Orange/White-Orange, Green/ White-Green, Brown/White-Brown
Insulation type	Polyolefin
Cable diameter / Norminal(OD)	7.0 +/- 0.30mm.
Weight	24 Kg/Km

Electrical Characteristics

Operating frequency	1 - 600 MHz
Impedance	100 +/- 5 Ohm to 600Mhz
Mutual Capacitance	5.6 nF Max / 100m
DC Resistance	6.65 Ohm Max / 100m
DC Resistance unbalance	2.5% max
Insulate Resistance	5000 MΩ / Km
Dielectric Strength	1 kV / min
Capacitance Unbalance	160 pF Max / 100m
Propagation Delay	536 ns / 100m Max@ 600Mhz
Delay Skew	30 ns Max
Voltage	300 Volts AC or DC
Test Voltage(DC, 1min)	1kV / min

Mechanical Properties

Minimum Bending Radius	Installation 8 x Cable Diameter Operation 4 x Cable Diameter
Tensile Strength	16.5 MPa(2400 PSI)
Installation / Operating Temperature	-40 °C to 75 °C
Storage Temperature	-40 °C to 80 °C

Electrical Characteristics

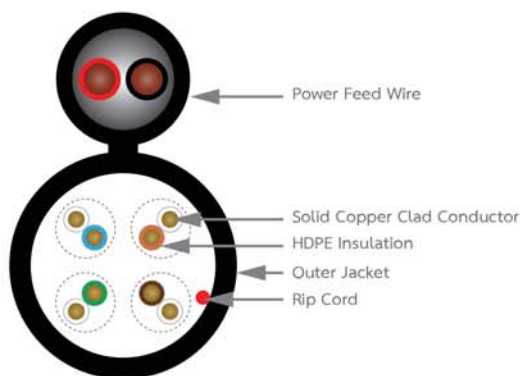
Frequency (Mhz)	Insertion Loss (dB/100m)	NEXT MIN.(dB)	ACR-N MIN.(dB)	PS NEXT MIN.(dB)	PS ACR-N MIN.(dB)	ACR-F MIN.(dB/100m)	PS ACR-F MIN.(dB/100m)	RL MIN.(dB)
1	2.0	78.0	76.0	76.0	73.5	69.0	66.0	20.0
31.25	10.7	56.0	45.3	54.0	42.8	38.5	35.6	23.6
62.5	15.4	50.5	35.1	52.2	33.0	33.0	29.5	21.5
100	19.8	47.5	27.7	49.8	25.6	28.5	25.8	20.1
155	25.1	45.0	19.7	47.2	17.2	25.0	23.0	18.8
200	29.0	44.4	15.4	45.0	12.3	22.5	21.7	18.0
250	32.0	42.9	10.9	43.2	6.5	21.2	18.0	17.3
300	36.4	41.5	4.9	40.7	1.9	18.5	15.6	16.8
400	43.0	38.5	-	37.5	-	16.5	13.7	15.9
500	51.8	36.7	-	34.5	-	13.5	10.7	14.9
600	54.5	36.5	-	34.5	-	13.0	10.0	14.7

Order Part Number as Below.

Part Number.	Descriptions.
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C61004 CAT6 23AWG Solid Bare Copper, Outdoor Cable, Double PE Jacket with Messenger Wire, Black color

BC-CAT62P075
CAT6 23AWG Solid Bare Copper Clad
Outdoor Cable
Single PE Jacket with Power Feed Wire



Descriptions

The BELLCOMMS Category6 Cable is a superior product delivering the best network performance when used in conjunction with other BELLCOMMS Series Category6 products. The Cable is constructed of 4 pairs with solid and insulated copper conductors, and is UL CM fire rated. It is designed for use in horizontal cabling and comes in a 305m (1000ft) easy pull out box or reel.

Construction and Material

Descriptions

Number of Pairs	4 pairs, 23AWG
Outer Jacket	PE (UV-proof Black Polyethylene)
Ripcord	Under Jacket
Conductor dimension	0.57mm.(23AWG solid bare copper Clad,CCA)
Insulation thick	1.0 mm HDPE
Insulation Color	Blue/White-Blue, Orange/White-Orange, Green/ White-Green, Brown/White-Brown
Insulation type	Polyolefin
Power Feed Wire Conductor	10 mm / dia 0.30mm CCA
Power Feed Wire Size	1.0 SQ.MM.
Power Feed Wire Insulation	2.40 mm dia.
Power Feed Wire Jacket	6.0 +/- 0.30 mm. dia.
Cable diameter / Nominal(OD)	6.0 +/- 0.30mm.
Weight	17 Kg/200m

Electrical Characteristics

Attenuation(dB/100m)	
4Mhz	4.1 Mhz
100Mhz	2.2 Mhz
Power Feed Wire	
Current Rating	3,000 mA
Voltage Rating	250V
Temperature Rating	70 °C
Analog Camera Recommendation	
Recommended Length	300 - 500 M
No. of Camera per power wire	1 - 4 Camera
IP Camera Recommendation	
Recommended Length	70 - 100 M
No. of Camera per power wire	1 - 2 Camera

Mechanical Properties

Minimum Bending Radius	Install 8 x Cable Diameter After Install 4 x Cable Diameter
Tensile Strength	9.5 MPa(1400 PSI)
Installation / Operating Temperature	-40 °C to 75 °C
Storage Temperature	-40 °C to 80 °C

Applications

- STRUCTURE CABLING(BACKBONE AND HORIZONTAL)
- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 1000 BASE-TX(TIA/EIA-854)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 52/155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- IEEE 802.3 i/u/ab.
- CDDI / ATM / TOKEN RING / VOIP
- POE, POE+(IEEE 802.3af,IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- IEEE 802.3AF(PoE) / IEEE 802.3AT (PoE+)
- LIMIT POWER- LP UL POE SAFTY STANDARD
- HDBASE T 2.0 STANDARD
- ETHERCAT INDUSTRIAL STANDARD.
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO

Order Part Number as Below.

Part Number.	Descriptions.
BC-CAT62P075	CAT6, 23AWG Solid Bare Copper Clad(CCA),Outdoor Cable Single PE Jacket with Power Feed Wire, Black color

C63004
CAT6 Modular Jack RJ45
90° 110 IDC Block, Keystone style



Features

- Category6 compliant using PCB technology.
- Fits all Keystone style Wall Plates
- Flexible locking tabs for easy insertion/removal from the Wall Plate.
- Re-terminable IDC contacts that allow for wiring changes without damage to the unit.
- Universal colour-coding for T568A and T568B standards.
- IDC termination using 110-style tools.
- Fully compliant to AS/NZS 3080:2013, ISO/IEC 11801:2011 and ANSI/TIA/EIA-568-B. Series Connecting Hardware Standards

Construction and Material

Descriptions

Product Type	RJ45 Jack with Cover caps
Style	Keystone type
Wiring Pattern	T568B/T568A universal color code
Housing Material	High Impact Flame Retardant Plastic
Housing Flammability Rating	UL94V-0 ABS
Jack Connect	Phosphor Bronze with over 50 micron-inches gold plating
Termiante Block	90° 110 IDC, UL94V-0 Polycarbonate
Termiante Material	Phosphor Bronze with tin over 150 micron-inches nickel under plated
Durability	800 mating cycle (Modular Jack) 200 termination cycles (110 IDC Block)
Tool Cover	UL940-0 ABS
Accept Wire Size	26AWG-22AWG solid and stranded wire
Compliant	UL and Intertek Channel test
Certified	Lead-free and RoHS compliant

Electrical Characteristics

Descriptions

Dielectric Strength	1,000V RMS at 60Hz for 1minute
Current Rating	1.5Amp maximum
Insulation Resistance	10M Ω minimum
Contact Resistance	2M Ω per contact
Temperature Rang(Work/Storage)	-10 °C to + 60 °C / -40 °C to + 70 °C
Transmission Performance	Exceeds ISO/IEC 11801 Class E AS/NZS 3080:2013 Class E

Electrical Characteristics

Frequency (Mhz)	INSERTION LOSS (dB)	NEXT (dB)	FEXT (dB)	Return Loss (dB)
1.0	0.02	84.8	83.7	52.4
4.0	0.02	80.3	74.5	53.7
8.0	0.02	77.5	69.5	55.3
10.0	0.03	76.5	67.5	56.1
16.0	0.03	72.0	63.0	57.6
20.0	0.04	72.1	61.7	59.3
25.0	0.04	69.1	60.0	59.4
31.25	0.05	67.7	58.2	56.8
62.5	0.06	61.5	52.6	42.3
100.0	0.06	57.7	48.8	33.2
200.0	0.06	52.5	42.2	21.2
250.0	0.10	48.0	40.1	17.4

Order Part Number as Below.

Part Number.	Descriptions.
C63004	CAT6 Modular Jack RJ45 90° 110 IDC Block, Keystone style, White color

Descriptions

The BELLCOMMS ranges of products are the next generation of data communications solutions. Low attention loss with new innovation produce technology, improving consistency in performance, and exactly matching the work-area outlets, these modular jacks are color coded for both T568A or T568B standards and can be terminated using a Krone or 110 style tools. Clear wire retaining caps are supplied and can be used to provide additional cable strain relief.



Standard

- ANSI/TIA-568.2-D CATEGORY 6
- ISO/IEC 11801:2017 CLASS E
- EN50173-1 CATEGORY 6
- T568B/T568A UNIVERSAL COLOR PATTERN
- UL LISTED AND INTERTEK TEST
- LEAD-FREE & RoHS COMPLIANT BY TUV
- TIA/EIA TSB-40
- TERMINATE 110 IDC, KNONE
- ANGLE 900/1800
- Housing UL94V-0 ABS
- Teminate block UL94V-0 Polycarbonate
- Toolless Type UL94V-0 ABS

Applications

- 10G BASE-T (IEEE 802.3an 10GIGABIT ETHERNET, 55m.)
- 1000 BASE-T (IEEE 802.3ab GIGABIT ETHERNET)
- 100 BASE-TX (IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- POE, POE+ (IEEE 802.3af, IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO

C63003
CAT6 Modular Jack RJ45, Shutter
180° 110 IDC Block, Keystone style

รุ่นนี้พบบิด

180°
110 IDC
Block



Features

- Category6 compliant using PCB technology.
- Fits all Keystone style Wall Plates
- Flexible locking tabs for easy insertion/removal from the Wall Plate.
- Re-terminable IDC contacts that allow for wiring changes without damage to the unit.
- Universal colour-coding for T568A and T568B standards.
- IDC termination using 110-style tools.
- Fully compliant to AS/NZS 3080:2013, ISO/IEC 11801:2011 and ANSI/TIA/EIA-568-B. Series Connecting Hardware Standards

Construction and Material

Descriptions

Product Type	RJ45 Jack with Cover caps and Shutter
Style	Keystone type
Wiring Pattern	T568B/T568A universal color code
Housing Material	High Impact Flame Retardant Plastic
Housing Flammability Rating	UL94V-0 ABS
Jack Connect	Phosphor Bronze with over 50 micron-inches gold plating
Termiante Block	180° 110 IDC, UL94V-0 Polycarbonate
Termiante Material	Phosphor Bronze with tin over 150 micron-inches nickel under plated
Durability	800 mating cycle (Modular Jack) 200 termination cycles (110 IDC Block)
Tool Cover	UL940-0 ABS
Accept Wire Size	26AWG-22AWG solid and stranded wire
Shutter Material	UL940-0 ABS
Compliant	UL and Intertek Channel test
Certified	Lead-free and RoHS compliant

Electrical Characteristics

Descriptions

Dielectric Strength	1,000V RMS at 60Hz for 1minute
Current Rating	1.5Amp maximum
Insulation Resistance	10MΩ minimum
Contact Resistance	2MΩ per contact
Temperature Rang(Work/Storage)	-10 °C to + 60 °C / -40 °C to + 70 °C
Transmission Performance	Exceeds ISO/IEC 11801 Class E, AS/NZS 3080:2013 Class E

Electrical Characteristics

Frequency (Mhz)	INSERTION LOSS (dB)	NEXT (dB)	FEXT (dB)	Return Loss (dB)
1.0	0.02	84.8	83.7	52.4
4.0	0.02	80.3	74.5	53.7
8.0	0.02	77.5	69.5	55.3
10.0	0.03	76.5	67.5	56.1
16.0	0.03	72.0	63.0	57.6
20.0	0.04	72.1	61.7	59.3
25.0	0.04	69.1	60.0	59.4
31.25	0.05	67.7	58.2	56.8
62.5	0.06	61.5	52.6	42.3
100.0	0.06	57.7	48.8	33.2
200.0	0.06	52.5	42.2	21.2
250.0	0.10	48.0	40.1	17.4

Order Part Number as Below.

Part Number.	Descriptions.
--------------	---------------

C63003 CAT6 Modular Jack RJ45, Shutter
 180° 110 IDC Block, Keystone style, White color

Descriptions

The BELLCOMMS ranges of products are the next generation of data communications solutions. Low attention loss with new innovation produce technology, improving consistency in performance, and exactly matching the work-area outlets. these modular jacks are color coded for both T568A or T568B standards and can be terminated using a Krone or 110 style tools. Clear wire retaining caps are supplied and can be used to provide additional cable strain relief. more desining for add Shutter panel for close RJ45 hole for protected the dust go to inside for save face contact performance.



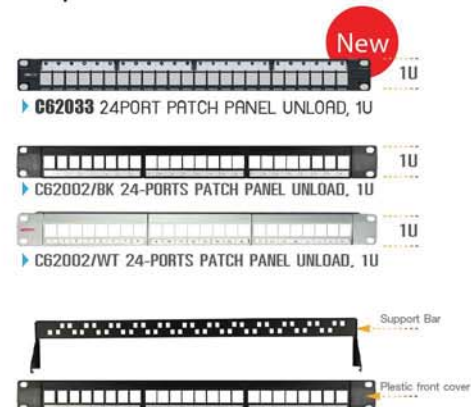
Standard

- ANSI/TIA-568.2-D CATEGORY 6
- ISO/IEC 11801:2017 CLASS E
- EN50173-1 CATEGORY 6
- T568B/T568A UNIVERSAL COLOR PATTERN
- UL LISTED AND INTERTEK TEST
- LEAD-FREE & RoHS COMPLIANT BY TUV
- TIA/EIA TSB-40
- TERMINATE 110 IDC, KNONE
- ANGLE 900/1800
- Housing UL94V-0 ABS
- Teminate block UL94V-0 Polycarbonate
- Toolless Type UL94V-0 ABS

Applications

- 10G BASE-T (IEEE 802.3an 10GIGABIT ETHERNET,55m.)
- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- POE, POE+(IEEE 802.3af,IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO

Compatible to Patch Panel Unload as below.



C63048

CAT6 Modular Jack RJ45, NON-Shutter, Slim 180° 110 IDC Block, Keystone style



Features

- Category6 compliant using PCB technology.
- Fits all Keystone style Wall Plates
- Flexible locking tabs for easy insertion/removal from the Wall Plate.
- Re-terminable IDC contacts that allow for wiring changes without damage to the unit.
- Universal colour-coding for T568A and T568B standards.
- IDC termination using 110-style tools.
- Fully compliant to AS/NZS 3080:2013, ISO/IEC 11801:2011 and ANSI/TIA/EIA-568-B. Series Connecting Hardware Standards

Construction and Material

Product Type	Descriptions
Style	Keystone type
Wiring Pattern	T568B/T568A universal color code
Housing Material	High Impact Flame Retardant Plastic
Housing Flammability Rating	UL94V-0 ABS
Jack Connect	Phosphor Bronze with over 50 micron-inches gold plating
Termiante Block	90°/180° 110 IDC, UL94V-0 Polycarbonate
Termiante Material	Phosphor Bronze with tin over 150 micron-inches nickel under plated
Durability	800 mating cycle (Modular Jack) 200 termination cycles (110 IDC Block)
Tool Cover	UL940-0 ABS
Accept Wire Size	26AWG-22AWG solid and stranded wire
Shutter Material	UL940-0 ABS
Compliant	UL and Intertek Channel test
Certified	Lead-free and RoHS compliant

Electrical Characteristics

Electrical Characteristics	Descriptions
Dielectric Strength	1,000V RMS at 60Hz for 1minute
Current Rating	1.5Amp maximum
Insulation Resistance	10MΩ minimum
Contact Resistance	2MΩ per contact
Temperature Rang(Work/Storage)	-10 °C to + 60 °C / -40 °C to + 70 °C
Transmission Performance	Exceeds ISO/IEC 11801 Class E, AS/NZS 3080:2013 Class E

Electrical Characteristics

Frequency (Mhz)	INSERTION LOSS (dB)	NEXT (dB)	FEXT (dB)	Return Loss (dB)
1.0	0.02	84.8	83.7	52.4
4.0	0.02	80.3	74.5	53.7
8.0	0.02	77.5	69.5	55.3
10.0	0.03	76.5	67.5	56.1
16.0	0.03	72.0	63.0	57.6
20.0	0.04	72.1	61.7	59.3
25.0	0.04	69.1	60.0	59.4
31.25	0.05	67.7	58.2	56.8
62.5	0.06	61.5	52.6	42.3
100.0	0.06	57.7	48.8	33.2
200.0	0.06	52.5	42.2	21.2
250.0	0.10	48.0	40.1	17.4

Order Part Number as Below.

Part Number.	Descriptions.
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C63048 CAT6 Modular Jack RJ45, NON-Shutter, Slim 90°/180° 110 IDC Block, Keystone style, White color

Descriptions

The BELLCOMMS ranges of products are the next generation of data communications solutions. Low attention loss with new innovation produce technology, improving consistency in performance, and exactly matching the work-area outlets. these modular jacks are color coded for both T568A or T568B standards and can be terminated using a Krone or 110 style tools. Clear wire retaining caps are supplied and can be used to provide additional cable strain relief. more desinging for add Shutter panel for close RJ45 hole for protected the dust go to inside for save face contact performance.



Standard

- ANSI/TIA-568.2-D CATEGORY 6
- ISO/IEC 11801:2017 CLASS E
- EN50173-1 CATEGORY 6
- T568B/T568A UNIVERSAL COLOR PATTERN
- UL LISTED AND INTERTEK TEST
- LEAD-FREE & RoHS COMPLIANT BY TUV
- TIA/EIA TSB-40
- TERMINATE 110 IDC, KNONE
- ANGLE 900°/1800
- Housing UL94V-0 ABS
- Temiante block UL94V-0 Polycarbonate
- Toolless Type UL94V-0 ABS

Applications

- 10G BASE-T (IEEE 802.3an 10GIGABIT ETHERNET,55m.)
- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- POE, POE+(IEEE 802.3af,IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO

Compatible to Patch Panel Unload as below.

▶ C63048 48PORT PATCH PANEL UNLOAD, 1U



CAT6 Modular Jack, SL series 110 IDC Block, Slim series(SL)

180°
110 IDC
Block



Features

- Category6 compliant using PCB technology.
- Fits all Keystone style Wall Plates
- Flexible locking tabs for easy insertion/removal from the Wall Plate.
- Re-terminable IDC contacts that allow for wiring changes without damage to the unit.
- Universal colour-coding for T568A and T568B standards.
- IDC termination using 110-style tools.
- Fully compliant to AS/NZS 3080:2013, ISO/IEC 11801:2011 and ANSI/TIA/EIA-568-B. Series Connecting Hardware Standards

Construction and Material

Descriptions

Product Type	RJ45 Jack with Cover caps and Non-Shutter
Style	Keystone type
Wiring Pattern	T568B/T568A universal color code
Housing Material	High Impact Flame Retardant Plastic
Housing Flammability Rating	UL94V-0 ABS
Jack Connect	Phosphor Bronze with over 50 micron-inches gold plating
Terminante Block	180° 110 IDC, UL94V-0 Polycarbonate
Terminante Material	Phosphor Bronze with tin over 150 micron-inches nickel under plated
Durability	800 mating cycle (Modular Jack) 200 termination cycles (110 IDC Block)
Tool Cover	UL940-0 ABS
Accept Wire Size	26AWG-22AWG solid and stranded wire
Shutter Material	UL940-0 ABS
Compliant	UL and Intertek Channel test
Certified	Lead-free and RoHS compliant

Electrical Characteristics

Descriptions

Dielectric Strength	1,000V RMS at 60Hz for 1minute
Current Rating	1.5Amp maximum
Insulation Resistance	10M Ω minimum
Contact Resistance	2M Ω per contact
Temperature Rang(Work/Storage)	-10 °C to + 60 °C / -40 °C to + 70 °C
Transmission Performance	Exceeds ISO/IEC 11801 Class E, AS/NZS 3080:2013 Class E

Electrical Characteristics

Frequency (Mhz)	INSERTION LOSS (dB)	NEXT (dB)	FEXT (dB)	Return Loss (dB)
1.0	0.02	84.8	83.7	52.4
4.0	0.02	80.3	74.5	53.7
8.0	0.02	77.5	69.5	55.3
10.0	0.03	76.5	67.5	56.1
16.0	0.03	72.0	63.0	57.6
20.0	0.04	72.1	61.7	59.3
25.0	0.04	69.1	60.0	59.4
31.25	0.05	67.7	58.2	56.8
62.5	0.06	61.5	52.6	42.3
100.0	0.06	57.7	48.8	33.2
200.0	0.06	52.5	42.2	21.2
250.0	0.10	48.0	40.1	17.4

Order Part Number as Below.

Part Number.	Descriptions.
C63221	CAT6 Modular Jack, 110 IDC Block, Slim series(SL), Blue color
C63222	CAT6 Modular Jack, 110 IDC Block, Slim series(SL), Black color
C63223	CAT6 Modular Jack, 110 IDC Block, Slim series(SL), Red color
C63224	CAT6 Modular Jack, 110 IDC Block, Slim series(SL), White color
C63225	CAT6 Modular Jack, 110 IDC Block, Slim series(SL), Yellow color

Descriptions

The BELLCOMMS ranges of products are the next generation of data communications solutions. Low attention loss with new innovation produce technology, improving consistency in performance, and exactly matching the work-area outlets. these modular jacks are color coded for both T568A or T568B standards and can be terminated using a Krone or 110 style tools. Clear wire retaining caps are supplied and can be used to provide additional cable strain relief. more desinging for add Shutter panel for close RJ45 hole for protected the dust go to inside for save face contact performance.



Standard

- ANSI/TIA-568.2-D CATEGORY 6
- ISO/IEC 11801:2017 CLASS E
- EN50173-1 CATEGORY 6
- T568B/T568A UNIVERSAL COLOR PATTERN
- UL LISTED AND INTERTEK TEST
- LEAD-FREE & RoHS COMPLIANT BY TUV
- TIA/EIA TSB-40
- TERMINATE 110 IDC, KNONE
- ANGLE 900/1800
- Housing UL94V-0 ABS
- Teminate block UL94V-0 Polycarbonate
- Toolless Type UL94V-0 ABS

Applications

- 10G BASE-T (IEEE 802.3an 10GIGABIT ETHERNET,55m.)
- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- POE, POE+(IEEE 802.3af,IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO

Compatible to Patch Panel Unload as below.



C62221 24-Ports Patch Panel Unload, 1U

C62003, C62004, C62005 CAT6 Patch Panel 110 IDC Block



▶ C62003 24Ports Patch Panel, 1U, CAT-6



▶ C62004 48Ports Patch Panel, 1U, CAT-6



▶ C62005 48Ports Patch Panel, 2U, CAT-6

Features

- Category6 compliant using PCB technology.
- Fits all 19-inch rack
- Flexible locking wire with Cable Management Support Bar
- Re-terminable IDC contacts that allow for wiring changes without damage to the unit.
- Universal colour-coding for T568A and T568B standards.
- IDC termination using 110-style tools.
- Fully compliant to AS/NZS 3080:2013, ISO/IEC 11801:2011 and ANSI/TIA/EIA-568-B. Series Connecting Hardware Standards

Construction and Material

Descriptions

Style of Modular	PCB RJ45 Connector
Panel	Aluminium light weight steel with hair line classic shine
Label	White paper insert within clear plastic cover
Cabling Organizing	Cable support Bar and Cable ties
Wiring Pattern	T568B/T568A universal color code
Jack Connect	Phosphor Bronze with over 50 micron-inches gold plating
Termiante Block	Dual Type 110-IDC or KRONE Connecting tools, UL940-0 ABS
Termiante Material	Phosphor Bronze with tin over 100 micron-inches nickel under plated
Durability	800 mating cycle (Modular Jack) 200 termination cycles (110 IDC Block)
Tool Cover	UL940-0 ABS
Accept Wire Size	26AWG-22AWG solid and stranded wire
Compliant	UL and Intertek Channel test
Certified	Lead-free and RoHS compliant

Electrical Characteristics

Descriptions

Dielectric Strength	1,000V RMS at 60Hz for 1minute
Current Rating	1.5Amp maximum
Insulation Resistance	10M Ω minimum
Contact Resistance	2M Ω per contact
Temperature Rang(Work/Storage)	-10 °C to + 60 °C / -40 °C to + 70 °C
Transmission Performance	Exceeds ISO/IEC 11801 Class E AS/NZS 3080:2013 Class E

Electrical Characteristics

Frequency (Mhz)	INSERTION LOSS (dB)	NEXT (dB)	FEXT (dB)	Return Loss (dB)
1.0	0.02	84.8	83.7	52.4
4.0	0.02	80.3	74.5	53.7
8.0	0.02	77.5	69.5	55.3
10.0	0.03	76.5	67.5	56.1
16.0	0.03	72.0	63.0	57.6
20.0	0.04	72.1	61.7	59.3
25.0	0.04	69.1	60.0	59.4
31.25	0.05	67.7	58.2	56.8
62.5	0.06	61.5	52.6	42.3
100.0	0.06	57.7	48.8	33.2
200.0	0.06	52.5	42.2	21.2
250.0	0.10	48.0	40.1	17.4

Order Part Number as Below.

Part Number.	Descriptions.
C62003	CAT6 Patch Panel 24 Port, Height 1.75"(1U), Black color
C62004	CAT6 Patch Panel 48 Port, Height 1.75"(1U), Black color
C62005	CAT6 Patch Panel 48 Port, Height 3.50"(2U), Black color

Descriptions

The BELLCOMMS Category6 Patch Panels are versatile and economic means of cross connection between vertical and horizontal cabling or direct hub to horizontal cabling. The panel is available in 12, 24, and 48 port versions. The cable termination is provided by the popular 110 Insulation Displacement Contact (IDC). Labeling is provided on both front and rear for easy identification. The product is designed to be mounted on a 19-inch rack.



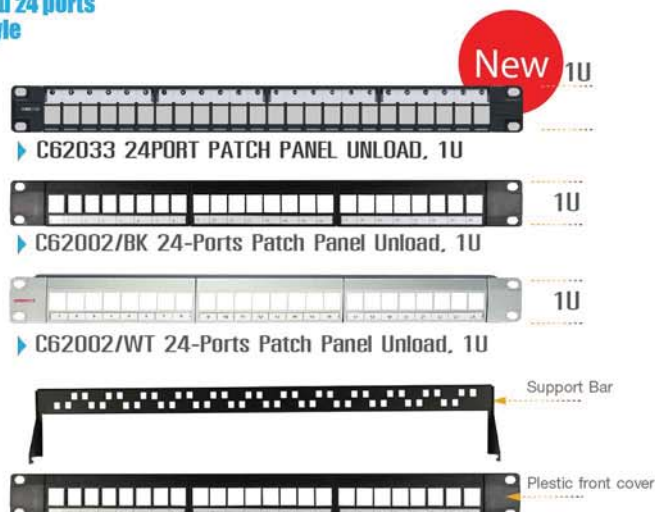
Standard

- ANSI/TIA-568.2-D CATEGORY 6
- ISO/IEC 11801:2017 CLASS E
- EN50173-1 CATEGORY 6
- T568B / T568A UNIVERSAL COLOR PATTERN
- UL LISTED AND INTERTEK TEST
- LEAD-FREE & RoHS COMPLIANT BY TUV
- TIA/EIA TSB-40
- TERMINATE 110, KNONE
- ANGLE 1800
- UL 1863
- PC UL94V-0

Applications

- 10G BASE-T(IEEE 802.3an 10GIGABIT ETHERNET, 55m.)
- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- POE, POE+(IEEE 802.3af, IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO

C62002, C62033 Patch Panel unload 24 ports 19" Rackmount style



Features

- Fits all 19-inch rack
- Flexible locking wire with Cable Management Support Bar
- Compatible both BM019 and C63003 Modular RJ45 Jack with Keystone style
- Support 24 port Modular RJ45 Jack with Keystone style
- Fully compliant to Meet ISO/IEC Generic Cabling Standard 11801 and Meet CENELEC Generic Cabling Standard EN50173

Construction and Material

Descriptions

Product Type	RJ45 patch panel unload
Color	Black and Silver
Modules, quantity	24 ports
Panel Style	Straight
Rack Type	EIA 19 in
Rack Units	1
Total Ports, quantity	24 ports
Cable Type	Unshielded
Material Type	High-impact, flame retardant, thermoplastic and Powder-coated steel

Dimensions Specifications

Descriptions

Height	44.45 mm or 1.75 in
Width	482.6 mm or 19 in
Depth	with cable management 170 mm or 6.7 in

Environmental Specifications

Descriptions

Operating Temperature	-10 °C to +60 °C (+14 °F to +140 °F)
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative Humidity	Up to 95%, non-condensing
Flammability Rating	UL 94 V-0

Descriptions

The BELLCOMMS Patch Panel unload 24 ports ranges of products are the next generation of data communications solutions. The Patch Panels are a perfect combination of sleek looks and outstanding performance. It can compatible to BELLCOMMS product are both BM019(CAT.5E, Shuttered) and C63003(CAT.6, Shuttered) Modular RJ45 Jack Shuttered with Keystone style. The Patch Panel have two color for choose are Silver and Black colors both sleek face of the product comprises three designation-strip holders with a label kit supplied. Velcro cable ties, cage nuts and screws are also provided with the product. The product is designed to be mounted on a 19-inch rack.



Standard

- Meet ISO/IEC Generic Cabling Standard 11801
- Meet CENELEC Generic Cabling Standard EN50173

Applications

- Horizontal distribution or equipment termination on long-distance communication
- Interactive termination on merger point
- Multi-user communication jack in working area.

Compatible as below

BM019
CAT5E Modular RJ45 Jack with Keystone style



C63003
CAT6 Modular RJ45 Jack with Keystone style

รุ่นพนัก



Order Part Number as Below.

Part Number.	Descriptions.
C62002/BK	Patch Panel unload 24 Port, Height 1.75"(1U), Black color
C62002/WT	Patch Panel unload 24 Port, Height 1.75"(1U), White color
C62033	Patch Panel unload 24 Port, Height 1.75"(1U), Black color

C62001 Patch Panel unload 24 ports, support shield 19" Rackmount style



▶ C62001 24-Ports Patch Panel Unload, 1U



Features

- Fits all 19-inch rack
- Flexible locking wire with Cable Management Support Bar
- Compatible both C63003 and BM019 Modular RJ45 Jack with Keystone style
- Support 24 ports Modular RJ45 Jack with Keystone style
- Fully compliant to Meet ISO/IEC Generic Cabling Standard 11801 and Meet CENELEC Generic Cabling Standard EN50173

Construction and Material

Descriptions

Product Type	RJ45 patch panel unload
Color	Black and Silver
Modules, quantity	24 ports
Panel Style	Straight
Rack Type	EIA 19 in
Rack Units	1
Total Ports, quantity	24 ports
Cable Type	Shielded / Unshielded
Material Type	High-impact, flame retardant, Powder-coated steel

Dimensions Specifications

Descriptions

Height	44.45 mm or 1.75 in
Width	482.6 mm or 19 in
Depth	with cable management 170 mm or 6.7 in

Environmental Specifications

Descriptions

Operating Temperature	-10 °C to +60 °C (+14 °F to +140 °F)
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative Humidity	Up to 95%, non-condensing
Flammability Rating	UL 94 V-0

Descriptions

The BELLCOMMS Patch Panel unload 24 ports ranges of products are the next generation of data communications solutions. The Patch Panels are a perfect combination of sleek looks and outstanding performance. It can compatible to BELLCOMMS product are both C63003(CAT.6, White color) and BM019(CAT.5E, White color) Modular RJ45 Jack Shuttered with Keystone style. The Patch Panel is Black color and sleek face of the product comprises designation-strip holders. Screws are also provided with the product. The product is designed to be mounted on a 19-inch rack.



Standard

- Meet ISO/IEC Generic Cabling Standard 11801
- Meet CENELEC Generic Cabling Standard EN50173

Applications

- Horizontal distribution or equipment termination on long-distance communication
- Interactive termination on merger point
- Multi-user communication jack in working area.

Compatible as below

BM019
CAT5E Modular RJ45 Jack with Keystone style



C63003
CAT6 Modular RJ45 Jack with Keystone style

รุ่นมีฝาปิด



Order Part Number as Below.

Part Number.	Descriptions.
C62001	Patch Panel unload 24 Ports, Height 1.75"(1U), Black color

C62221

Patch Panel unload 24 ports, Slim series(SL)

19" Rackmount style



C62221 24-Ports Patch Panel Unload, 1U



Features

- Fits all 19-inch rack
- Flexible locking wire with Cable Management Support Bar
- Compatible Slim series(SL) Modular RJ45 Jack with Keystone style
- Support 24 ports Modular RJ45 Jack with Keystone style
- Fully compliant to Meet ISO/IEC Generic Cabling Standard 11801 and Meet CENELEC Generic Cabling Standard EN50173

Construction and Material

Descriptions

Product Type	RJ45 patch panel unload
Color	Black
Modules, quantity	24 ports
Panel Style	Straight
Rack Type	EIA 19 in
Rack Units	1
Total Ports, quantity	24 ports
Cable Type	Unshielded
Material Type	High-impact, flame retardant, Powder-coated steel

Dimensions Specifications

Descriptions

Height	44.45 mm or 1.75 in
Width	482.6 mm or 19 in
Depth	with cable management 170 mm or 6.7 in

Environmental Specifications

Descriptions

Operating Temperature	-10 °C to +60 °C (+14 °F to +140 °F)
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative Humidity	Up to 95%, non-condensing
Flammability Rating	UL 94 V-0

Descriptions

The BELLCOMMS Patch Panel unload 24 ports ranges of products are the next generation of data communications solutions. The Patch Panels are a perfect combination of sleek looks and outstanding performance.

It can compatible to BELLCOMMS product are C63221 (Blue) C63222 (Black), C63223 (Red), C63224 (White) and C63225 (Yellow) Modular RJ45 Jack Non-Shuttered with Keystone style, The Patch Panel is Black color and sleek face of the product comprises three designation-strip holders with screws are also provided with the product. The product is designed to be mounted on a 19-inch rack.

Material product are entire steel outer frame with plastic powder coat finish, colour of product is Black, Housing is high impact flame retardant plastic, UL ABS757



Standard

- Meet ISO/IEC Generic Cabling Standard 11801
- Meet CENELEC Generic Cabling Standard EN50173
- ANSI/TIA-568-C.2, ISO/IEC 60603-7 compliant
- RoHS directive 2002/95/EC compliant

Applications

- Horizontal distribution or equipment termination on long-distance communication
- Interactive termination on merger point
- Multi-user communication jack in working area.

Compatible as below

CAT6 Modular RJ45 Jack with Keystone style, Slim series(SL)
C63221 (Blue)
C63222 (Black)
C63223 (Red)
C63224 (White)
C63225 (Yellow)



Order Part Number as Below.

Part Number.	Descriptions.
C62221	Patch Panel unload 24 Ports, Height 1.75"(1U), Black color Slim series(SL)

C62048 Patch Panel unload 48ports 19" Rackmount style



Features

- Fits all 19-inch rack
- Flexible locking wire with Cable Management Support Bar
- Compatible to C63048 Modular RJ45 Jack with Keystone style
- Support 48 ports Modular RJ45 Jack with Keystone style
- Fully compliant to Meet ISO/IEC Generic Cabling Standard 11801 and Meet CENELEC Generic Cabling Standard EN50173

Construction and Material

Descriptions

Product Type	RJ45 patch panel unload
Color	Black
Modules, quantity	48 ports
Panel Style	Straight
Rack Type	EIA 19 in
Rack Units	1
Total Ports, quantity	48 ports
Cable Type	Unshielded
Material Type	High-impact, flame retardant, Powder-coated steel

Dimensions Specifications

Descriptions

Height	44.45 mm or 1.75 in
Width	482.6 mm or 19 in
Depth	with cable management 170 mm or 6.7 in

Environmental Specifications

Descriptions

Operating Temperature	-10 °C to +60 °C (+14 °F to +140 °F)
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative Humidity	Up to 95%, non-condensing
Flammability Rating	UL 94 V-0

Descriptions

The BELLCOMMS Patch Panel unload 48 ports ranges of products are the next generation of data communications solutions. The Patch Panels are a perfect combination of sleek looks and outstanding performance. It can compatible to BELLCOMMS product with C63048 CAT.6 Modular RJ45 Jack Non-Shuttered with Keystone style, The Patch Panel is Black color and sleek face of the product. The product is designed to be mounted on a 19-inch rack with the back panel have support bar for lock cable.

Material product are entire steel outer frame with colour of product is Black, Housing is high impact flame retardant plastic, UL ABS757



Standard

- Meet ISO/IEC Generic Cabling Standard 11801
- Meet CENELEC Generic Cabling Standard EN50173
- ANSI/TIA-568-C.2, ISO/IEC 60603-7 compliant
- RoHS directive 2002/95/EC compliant

Applications

- Horizontal distribution or equipment termination on long-distance communication
- Interactive termination on merger point
- Multi-user communication jack in working area.

Compatible as below

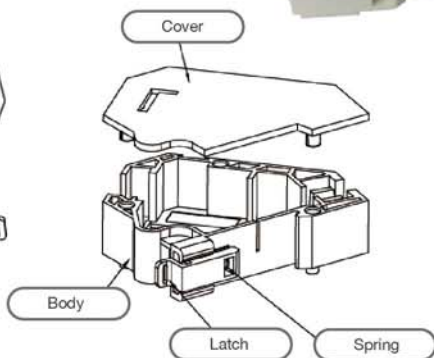
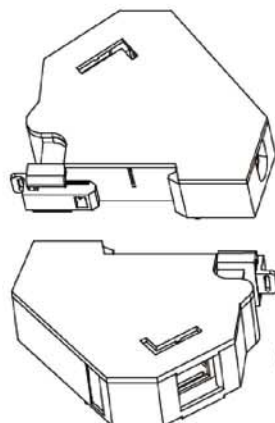
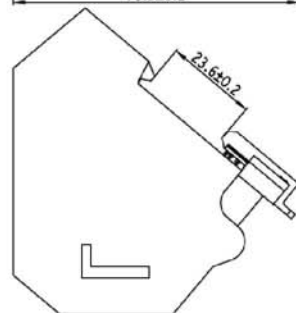
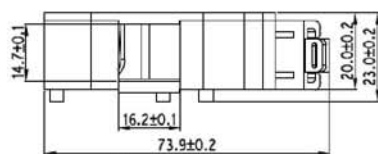
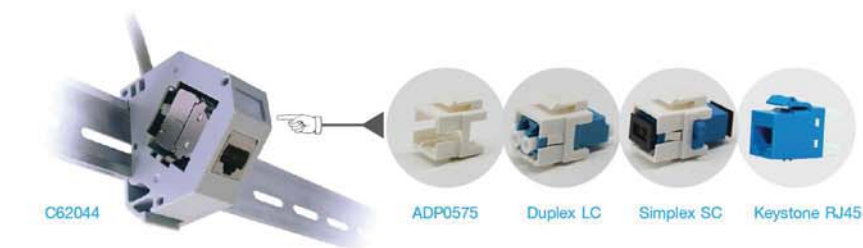
CAT6 Modular RJ45 Jack with Keystone style, Slim C63048 (White)



Order Part Number as Below.

Part Number.	Descriptions.
C62048	Patch Panel unload 48 Ports, Height 1.75"(1U), Black color, Slim

C62044
1 port RJ45 keystone style DIN-Rail type box



Descriptions

The BELLCOMMS A "DIN Rail Box for UTP Keystone Modules" refers to a housing or enclosure designed to mount on a DIN rail and accommodate UTP (Unshielded Twisted Pair) Keystone modules, SC simplex fiber coupling and LC duplex fiber coupling

Material

- Horizontal distribution or equipment termination on long-distance communication
- Interactive termination on merger point
- Multi-user communication jack in working area.



Standard

- ANSI/TIA-568-C.2
- ISO/IEC 11801 :2002/Amd.2:2010
- YD/T 926.3-2009
- ISO/IEC 60603-7 COMPLIANT
- RoHS directive 2002/95/EC compliant

Applications

- For use to RJ45 keystone style standard
- For use to LC Duplex coupling(adapter) connector standard
- For use to SC Simplex coupling(adapter) connector standard
- For install standard of industrial Din-rail style

Feature

- Capacity: 1 ports LC duplex / 1 port SC simplex / 1 port Jack keystone RJ45
- Material: ABS plastic
- Dimension: 14.7x73.9x79.5mm

Order Part Number as Below.

Part Number.	Descriptions.
C62044	1 port RJ45 keystone style DIN-Rail type box
ADP0575	Clip lock for SC simplex or LC duplex coupling(Adater)

BC-680201 CAT6 RJ45 to RJ45 Waterproof Connector Panel Mounted



MAIN TECHNIQUE PERFORMANCE

Product Description	Details
Color	Black
Pin	8 Pin
Fire-proof Level	UL94-V0
Operating Temperature	-40°C~105°C
Shell Material	Nylon PA66
Contact Material	Gold Plated Copper
Cable OD Range	4.5-7.5mm

DETECTION TECHNICAL INDICATORS

Product Description	Details
Waterproof Level	IP68
Rated Voltage	125V
Rated Current	1.5A

Order Part Number as Below.

Part Number.	Descriptions.
BC-680201	CAT6 RJ45 to RJ45 Coupling Waterproof Connector Panel Mounted

Descriptions

The BELLCOMMS For a waterproof RJ45 CAT6 Coupling connector that can be panel mounted, you'll want to look for connectors specifically designed for outdoor or harsh environment use



Standard

- ANSI/TIA-568.2-D CATEGORY 6
- ISO/IEC 11801:2017 CLASS E
- EN50173-1 CATEGORY 6
- UL LISTED AND INTERTEK TEST
- LEAD-FREE & RoHS COMPLIANT BY TUV
- TIA/EIA TSB-40
- ANGLE 900/1800
- Housing UL94V-0 ABS
- CE, RoHS, REACH, and IP68

Applications

- 10G BASE-T (IEEE 802.3an 10GIGABIT ETHERNET.55m.)
- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- POE, POE+(IEEE 802.3af,IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO

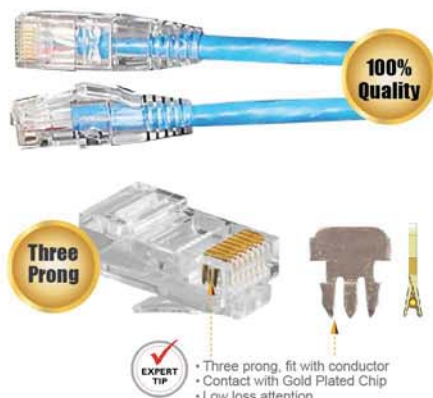
Feature

- RJ45 CAT6 coupling waterproof connector
- harsh environments where protection against water and dust
- Panel mounting easy and secure
- wide temperature range -40°C~105°C

Product accessories

- CAT6 module(RJ45 to RJ45 coupling) x 1pcs
- Panel nut x 1pcs
- Waterproof O-Ring x 2pcs
- Dust-cover x 1pcs
- Black Shell x 1pcs
- Waterproof ring x 1pcs
- Cap x 1pcs

C68001, C68002, C68003 CAT6 Patch Cord Cable RJ45 to RJ45 plug



Features

- High performance Cat6 4-pairs UTP
- RJ45 Male to RJ45 Male Modular Plug with three prong contact
- RJ45 Plug Contact plate 50 micron gold
- 100% bare copper Conductor
- 24 AWG Conductor with Stranded Wire
- 100% high quality stable performance
- Fitted with strain relief boots
- 100% tested wiring sequence and continuity
- Excellent attenuation and cross talk characteristics.
- More flexible and durable.



Construction and Material

Descriptions

Cable	Stranded wire flexible UTP Category 6 cable
Color	White, Red, Green, Blue, Yellow
Connector	Category 6 RJ45 Modular Plugs with 50 micron-inches gold plating, three prong contact over 100 micron-inches nickel under plated and Phosphor Bronze
Wire Size	24 AWG
Slim Boot	Molding from manufacturer are designed to protect Plugs and Cables
Insulation diameter	0.96 mm HDPE
Insulation Color	Blue/White-Blue, Orange/White-Orange, Green/ White-Green, Brown/White-Brown
Cable diameter	4 pairs 7/0.20mm conductor dimension
Wiring system	T568A or T568B universal
Q.C.	100% factory assembly testing cable
Standard	UL listed and follow In terteck Channels Test
Certified	Lead-free and RoHS compliant

Electrical Characteristics

Frequency (Mhz)	Attenuation (dB)	NEXT (dB)	ELFEXT (dB)	PS NEXT (dB)	PS ELFEXT (dB)	Return Loss (dB)
1	1.9	74.3	67.8	72.3	64.8	20
4	3.7	65.3	55.8	63.3	57.7	23
10	5.9	59.3	47.8	57.3	44.8	25
16	7.5	56.3	43.7	54.3	40.7	25
20	8.4	54.8	41.8	52.8	38.7	25
31.25	10.6	51.9	37.9	49.9	34.9	23.6
62.5	15.4	47.4	31.9	45.4	28.8	21.5
100	19.8	44.3	27.8	42.3	24.8	20.1
155	25.1	41.4	23.9	39.4	20.9	18.8
200	29	39.8	21.8	37.8	18.7	18
250	32.8	38.3	19.8	36.3	16.8	17.3

Descriptions

The BELLCOMMS Enhanced Category 6 RJ45 Patch Cords are designed for use at either the workstation or cabinet environment. The Patch cords come in several sizes and colors. Each end is fitted with a high quality Modular RJ45 plugs with three prong contact, which is terminated with a cover boot to prevent snags and damage to the latch of the plug, this is especially helpful when removing and running cords in either frame or cabinet. Patch cords lengths are usually 10 meters or less, to meet the EIA/TIA or ISO standards for structured cabling.



Standard

- ANSI/TIA-568.2-D CATEGORY 6
- ISO/IEC 11801:2017 CLASS E
- EN50173-1 CATEGORY 6
- T568B/T568A UNIVERSAL COLOR PATTERN
- UL LISTED AND INTERTEK TEST
- LEAD-FREE & RoHS COMPLIANT BY TUV

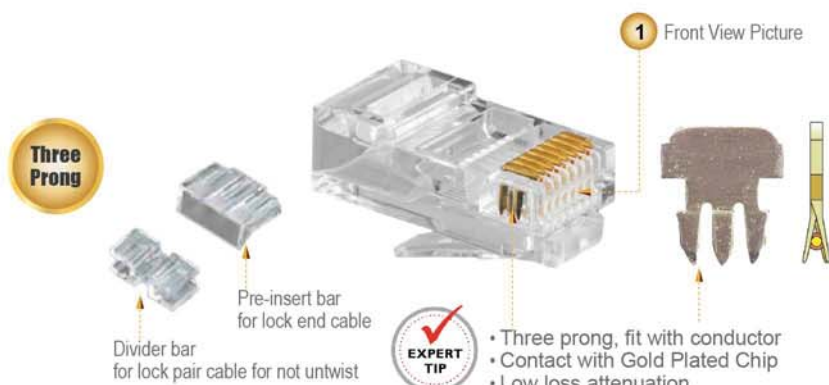
Applications

- 10G BASE-T(IEEE 802.3an 10GIGABIT ETHERNET*55M)
- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- POE, POE+(IEEE 802.3af, IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO

Order Part Number as Below.

Part Number.	Descriptions.
C68001 - XX	CAT6 Patch Cord Cable, RJ45 to RJ45, 1 meter
C68002 - XX	CAT6 Patch Cord Cable, RJ45 to RJ45, 2 meter
C68003 - XX	CAT6 Patch Cord Cable, RJ45 to RJ45, 3 meter
	Color Code: XX = BL-Blue, YL-Yellow, RD-Red

C67001
CAT6 plus Modular Plug RJ45, 2 Layer, Tree prong
Pre-insert bar and Divider bar
Low loss with stable data speed.



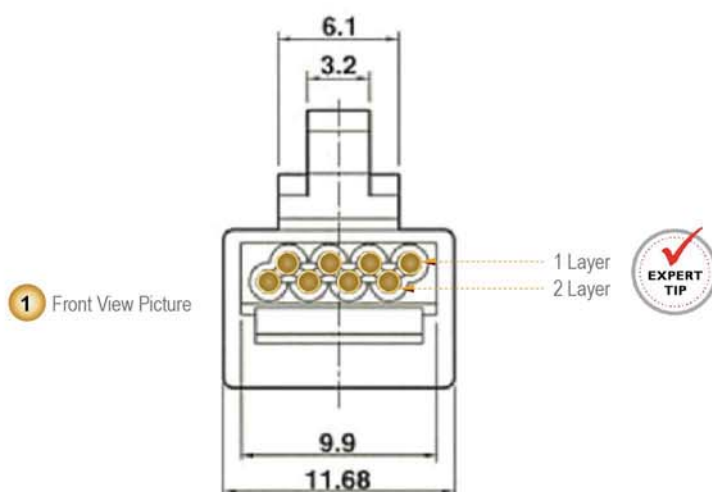
Features

- Low loss with stable data speed.
- Strain relief construction for flexible movement, durability, and fit.
- Reduces cross talk and interference
- Crystal head shrapnel has been strength
- More resistant to bending
- Sharpnel bengind more than 20 times without breaking
- Thickened trigeminal chip to suppress a high success rate
- A larger contact area
- Transfer faster more stable
- The structure of 3 prong pins enables high reliability connection for both stranded and solid cable
- High-strength PC material prevents connector breakage

Construction and Material

Descriptions

Type	Cat6 Modular Plug RJ45
Housing	Polycarbonate, UL94V-0
Structure	2 Layer with Pre-insert bar and Divider bar for lock pair cable for not untwist
Contact	Three prong(3 contact point), Phosphor Bronze with 50 micron-inches gold plating
Accept Wire	26AWG-22AWG Solid and Strand Wire
Temperature	Operating Temperature:-40 °c~+125 °c
Electrical Test	Dielectric Withstanding Voltage test 1000V/DC Insulation Resistance: >500MΩ Contact Resistance:<20MΩ
Mechanical	Cable-to-plug tensile strength-20LBs(89N) min. Durability:2000 mating cycles.
Complies Standard	UL listed and follow In tertek Channels Test
Certified	Lead-free and RoHS compliant



Descriptions

The BELLCOMMS Enhance Category6 Modular Plug As you know, when standard 8 position modular plug mated with PCB mounted 8 position jack, it cannot meet the CATEGORY5E NEXT (Near End Cross Talk) requirement by TIA/EIA TSB40-A. Now we have designed high performance 8 position plugs with shielded or non-shielded version to meet TIA/EIA TSN40-A test specification for serving our customer.



Standard

- ANSI/TIA-568-2-D CATEGORY 6
- ISO/IEC 11801:2017 CLASS E
- EN50173-1 CATEGORY 6
- UL/cUL LISTED AND INTERTEK TEST
- LEAD-FREE & RoHS COMPLIANT BY TUV
- Housing UL-94V-0 Polycarbonate

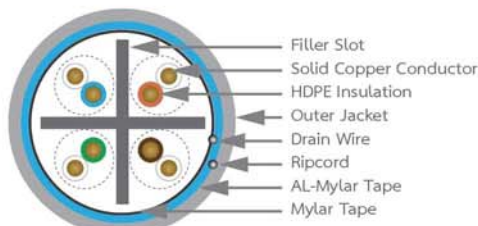
Applications

- 10G BASE-T(IEEE 802.3an 10GIGABIT ETHERNET*55M)
- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- POE, POE+(IEEE 802.3af,IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO
- IEEE 802.3AF(PoE) / IEEE 802.3AT (PoE+)
- LIMIT POWER- LP UL POE SAFTY STANDARD
- HDBASE T 2.0 STANDARD
- ETHERNET CAT INDUSTRIAL STANDARD.

Order Part Number as Below.

Part Number.	Descriptions.
C67001	CAT6 plus Modular Plug RJ45, Three prong, 2 Layer Pre-insert bar and Divider bar Low loss with stable data speed, Transparent color

BC-C6A60001
CAT6A 23AWG Solid Bare Copper
Indoor Cable,LSZH Jacket
F/UTP(Shielded) Cable



BELLCOMMS BC-C6A60001



Construction and Material

Number of Pairs	4 pairs, 23AWG, CAT6A
Outer Jacket	LSZH: FR-LSZH (Flame Retardant) as refer UL/NEC
Shielded	AL-Mylar Tape
Mylar	Mylar Tape
Drain Wire	Tinned Copper
Filler slot	FRPE isolator separator
Ripcord	Under Jacket
Conductor dimension	0.56mm.(23AWG solid bare copper)
Insulation thick	0.99mm HDPE
Insulation Color	Blue/White-Blue, Orange/White-Orange, Green/ White-Green, Brown/White-Brown
Insulation type	Polyolefin
Cable diameter / Normal(OD)	7.0 +/- 0.30mm.
Weight	61 Kg/Km

Electrical Characteristics

Operating frequency	1 - 650 MHz
Impedance	100 +/- 15 Ω , 1 Mhz to 650 Mhz
Mutual Capacitance	5.6 nF Max / 100m
DC Resistance	6.65 Ω Max / 100m
DC Resistance unbalance	4% max
Insulate Resistance	5000 M Ω / Km
Dielectric Strength	1 kV / min
Capacitance Unbalance	160 pF Max / 100m
Propagation Delay	534 ns / 100m Max@ 650Mhz
Delay Skew	25 ns Max
Voltage	300 Volts AC or DC
Test Voltage(DC, 1min)	1kV / min

Mechanical Properties

Minimum Bending Radius	Install 8 x Cable Diameter After Install 4 x Cable Diameter
Tensile Strength	110N(25lbf)
Ultimate Breaking Strength	>400N (90lbf)
Installation / Operating Temperature	-20 °C to 60 °C
Storage Temperature	-20 °C to 80 °C

Electrical Characteristics

Frequency (Mhz)	Insertion Loss (dB/100m)	NEXT MIN.(dB)	PS NEXT MIN.(dB)	PS ANEXT MIN.(dB)	PS AACR-F MIN.(dB)	ACR-F MIN.(dB/100m)	PS ACR-F MIN.(dB/100m)	RL MIN.(dB)
1.0	2.0	78.3	76.3	67.0	67.0	71.8	68.8	20.0
31.25	10.4	55.9	53.9	67.0	48.3	41.9	38.9	25.6
62.50	14.9	51.4	49.4	65.6	42.3	35.9	32.9	23.5
100.0	19.0	48.3	46.3	62.5	38.2	31.8	28.8	22.1
200.0	27.5	43.8	41.8	58.0	32.2	25.8	22.8	20.0
250.0	31.0	42.3	40.3	56.5	30.2	23.8	20.8	19.3
300.0	34.2	41.1	39.3	55.3	28.7	22.3	19.3	18.8
500.0	45.3	37.8	35.8	52.0	24.2	17.8	14.8	17.5
550.0	47.7	37.2	35.2	-	-	-	-	17.2
650.0	52.4	36.1	34.6	-	-	-	-	16.7

Order Part Number as Below.

Part Number.	Descriptions.
BC-C6A60001	CAT6A 23AWG Solid Bare Copper,Indoor Cable,LSZH Jacket, White color F/UTP(Shielded) Cable

Descriptions

BELLCOMMS Cat6a can also support 10 Gbps(XG), Cat6a oxygen free copper twisted pair data cable with low smoke zero halogen sheath. Individual pair aluminium foil screen and overall braided aluminium screen provide protection from any pair or alien crosstalk. Supplied on a wooden drum reel and marked at 1 metre intervals. This cable is designed for high speed data transmission such as Gigabit Ethernet applications within noisy environments.

Low smoke zero halogen sheath material compliant to RoHS minimises the risk of thick black smoke and poisonous fumes in the event of a fire AWG 23 oxygen free solid copper conductor Supplied on a sturdy wooden drum reel, Complies to TIA/EIA-568 Cat6a standard Fully complies with the recommendations set forth by IEEE 802.3bt (Type 4) for the safe delivery of power over LAN cable when installed according to ISO/IEC 14763-2, CENELEC EN 50174-1, CENELEC EN 50174-2 or TIA TSB-184-A



Standard

- ANSI/TIA-568.2-D CATEGORY 6A
- ISO/IEC 11801:2017 CLASS EA
- EN50173-1 CATEGORY 6A, CENELEC EN50288-6-1
- EN50288-10-1, IEC 60332-1-2, IEC 60754-2, IEC 61034-2
- UL/CSA LISTED CM, CMR, CMP AND LSZH
- ETL AND 3P VERIFIED TO TIA-568-C.2 CAT6A
- UL, INTERTEK, RoHS COMPLIANT

Applications

- STRUCTURE CABLING(BACKBONE AND HORIZONTAL)
- 10G BASE-T(IEEE 802.3an 10GIGABIT ETHERNET)
- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 1000 BASE-TX(TIA/EIA-854)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 52/155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- IEEE 802.3 i/u/ab.
- CDDI / ATM / TOKEN RING / VOIP
- POE, POE+(IEEE 802.3af,IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- IEEE 802.3AF(PoE) / IEEE 802.3AT (PoE+)
- LIMIT POWER- LP UL POE SAFTY STANDARD
- HDBASE T 2.0 STANDARD
- ETHERCAT INDUSTRIAL STANDARD.
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO

(UL/NEC)Flame Rating	Jacket
CM,CMR	: FR-PVC
CMP	: FR PVC(Low Smoke)
LSZH	: FR-LSZH

Insulation	Jacket
CM,CMR	: FR-PVC
CMP	: FEP

C69001 CAT6A Modular Jack RJ45 180° 110 IDC Block, Keystone style



Features

- Category6A compliant using PCB technology.
- Fits all Keystone style Wall Plates
- Flexible locking tabs for easy insertion/removal from the Wall Plate.
- Re-terminable IDC contacts that allow for wiring changes without damage to the unit.
- Universal colour-coding for T568A and T568B standards.
- IDC termination using 110-style tools.
- Fully compliant to AS/NZS 3080:2013, ISO/IEC 11801:2011 and ANSI/TIA/EIA-568-B. Series Connecting Hardware Standards

Construction and Material

Descriptions

Product Type	CAT6A RJ45 Jack with Cover caps and Shutter
Style	Keystone type
Wiring Pattern	T568B/T568A universal color code
Housing Material	High Impact Flame Retardant Plastic
Housing Flammability Rating	UL94V-0 ABS
Jack Connect	Phosphor Bronze with over 50 micron-inches gold plating
Termiante Block	180° 110 IDC, UL94V-0 Polycarbonate
Termiante Material	Phosphor Bronze with tin over 100 micron-inches nickel under plated
Durability	800 mating cycle (Modular Jack) 250 termination cycles (110 IDC Block)
Tool Cover	UL940-0 ABS
Toolless type(Tool Free)	180° IDC, UL94V-0-ABS
Shield Cover(Shield Tpye)	Zinc Alloy, with nickel plate
Accept Wire Size	26AWG-22AWG solid and stranded wire
Shutter Material	UL940-0 ABS
Compliant	UL and Intertek Channel test
Certified	Lead-free and RoHS compliant

Electrical Characteristics

Descriptions

Dielectric Strength	1,000VDC and 700VAC
Current Rating	1.5Amp maximum
Insulation Resistance	>500MΩ
Contact Resistance	<2MΩ per contact
Temperature Rang(Work/Storage)	-10 °C to + 60 °C / -40 °C to + 70 °C
Transmission Performance	Exceeds ISO/IEC 11801 Class E, AS/NZS 3080:2013 Class E

Electrical Characteristics

Frequency (Mhz)	NEXT (dB)	FEXT (dB)	Return Loss (dB)
1.0	75.0	75.0	35.0
4.0	75.0	71.0	30.0
8.0	75.0	65.0	30.0
10.0	74.0	63.0	30.0
16.0	69.0	59.0	30.0
20.0	68.0	57.0	30.0
25.0	66.0	55.0	30.0
31.0	64.0	53.0	30.0
62.0	58.0	47.0	30.0
100.0	54.0	43.0	28.0
200.0	48.0	37.0	22.0
250.0	46.0	35.0	20.0
300.0	42.0	33.0	18.0
400.0	37.0	31.0	16.0
500.0	34.0	29.0	14.0

Order Part Number as Below.

Part Number.	Descriptions.
C69001	Cat.6A FTP/STP keystone jack 180 degree Toolless screw cap

Descriptions

The BELLCOMMS Category6A with 10G(XG) ranges of products are the next generation of data communications solutions. Low attention loss with new innovation produce technology, improving consistency in performance, and exactly matching the work-area outlets. these modular jacks are color coded for both T568A or T568B standards and can be terminated using a Krone or 110 style tools. Clear wire retaining caps are supplied and can be used to provide additional cable strain relief. more desinging for add Shutter panel for close RJ45 hole for protected the dust go to insde for save face contact performance.



Standard

- ANSI/TIA-568.2-D CATEGORY 6A
- ISO/IEC 11801:2017 CLASS EA
- EN50173-1 and IEEE 802.3an(10Gbase-Tx)
- T568B/T568A UNIVERSAL COLOR PATTERN
- UL LISTED AND INTERTEK TEST
- LEAD-FREE & RoHS COMPLIANT BY TUV
- TIA/EIA TSB-40
- TERMINATE 110 IDC, KNONE
- ANGLE 900/1800
- Housing UL94V-0 ABS
- Temiante block UL94V-0 Polycarbonate
- Toolless Type UL94V-0 ABS

Applications

- 10G BASE-T (IEEE 802.3an 10GIGABIT ETHERNET)
- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- POE, POE+(IEEE 802.3af, IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO

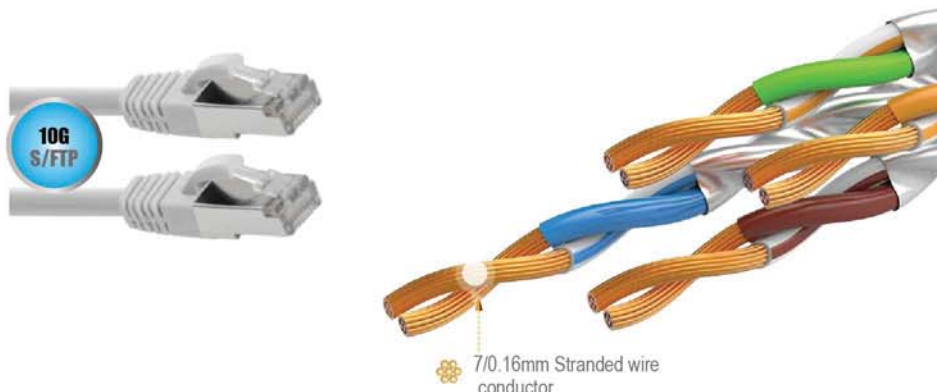
Compatible to

C69003

CAT.6A FTP/STP 24-PORT PATCH PANEL SHIELDED UNLOAD, REAR STRIP



BC-C6A62004, BC-C6A62005, BC-C6A62006
CAT6A Patch Cord Cable
S/FTP, LSZH Jacket.



Features

- High performance Cat6A 4-pairs S/FTP Shield
- RJ45 Male to RJ45 Male Modular Plug, Shield
- RJ45 Plug Contact plate 50 micron gold
- 100% bare copper Conductor
- 26 AWG Conductor with Stranded Wire
- 100% high quality stable performance
- Fitted with strain relief boots
- 100% tested wiring sequence and continuity
- Excellent attenuation and cross talk characteristics.
- More flexible and durable.

Construction and Material

Descriptions

Cable	Stranded wire flexible S/FTP Category 6A cable
Color	White, Red, Green, Blue, Yellow
Connector	Category 6A RJ45 Modular Plugs with 50 micron-inches gold plating over 100 micron-inches nickel under plated and Phosphor Bronze
Wire Size	26 AWG
Slim Boot	Molding from manufacturer are designed to protect Plugs and Cables
Insulation diameter	0.96 mm HDPE
Insulation Color	Blue/White-Blue, Orange/White-Orange, Green/ White-Green, Brown/White-Brown
Cable diameter	4 pairs 7/0.16mm conductor dimension
Wiring system	T568A or T568B universal
Q.C.	100% factory assembly testing cable
Standard	UL listed and follow In tertek Channels Test
Certified	Lead-free and RoHS compliant

Electrical Characteristics

Frequency (Mhz)	Insertion Loss (dB)	NEXT (dB)	ACR-N (dB)	ACR-F (dB)	PS NEXT (dB)	PS ACR-N (dB)	PS ACR-F (dB)	Return Loss (dB)
1	3	65.0	62.0	63.3	62.0	59.0	60.3	19.0
4	4.2	63.0	58.9	51.2	60.5	56.4	48.2	19.0
8	5.8	58.2	52.4	45.2	55.6	49.8	42.2	19.0
10	6.5	56.6	50.1	43.3	54.9	47.5	40.3	19.0
16	8.2	53.2	45.0	39.2	50.6	42.4	36.2	18.0
20	9.2	51.6	42.5	37.2	49.0	39.8	34.2	17.5
25	10.2	50.0	39.8	35.3	47.3	37.1	32.2	17.0
31.25	11.5	48.4	36.9	33.4	45.7	34.2	30.4	16.5
62.5	16.4	43.4	27.0	27.3	40.6	24.2	24.3	14.0
100	20.9	39.9	19.0	23.3	37.1	16.2	20.3	12.0
200	30.1	34.8	4.7	17.2	31.9	1.8	14.2	9.0
250	33.9	33.1	-0.8	15.3	30.2	-3.7	12.3	8.0
350	40.6	30.3	-10.3	12.4	27.3	-13.3	9.4	6.6
500	49.3	26.1	-23.2	9.3	23.2	-26.1	6.3	6.0

Order Part Number as Below.

Part Number.	Descriptions.
BC-C6A62003 - XX	CAT6A RJ45 to RJ45 Patch Cord, LSZH, 1 Meter
BC-C6A62004 - XX	CAT6A RJ45 to RJ45 Patch Cord, LSZH, 2 Meter
BC-C6A62005 - XX	CAT6A RJ45 to RJ45 Patch Cord, LSZH, 3 Meter
	Color code: xx = BL-Blue, YL-Yellow, RD-Red

Descriptions

The BELLCOMMS Patch Cord Cable Category6A with 10G(XG) ranges of products are the next generation of data communications solutions. Low attention loss with new innovation produce technology, improving consistency in performance, and exactly matching the work-area outlets. these modular plug are color coded for both T568A or T568B standards



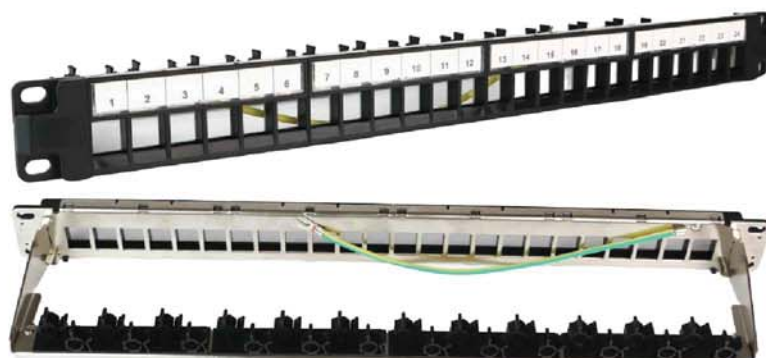
Standard

- ANSI/TIA-568.2-D CATEGORY 6A
- ISO/IEC 11801:2017 CLASS EA
- EN50173-1 and IEEE 802.3an(10Gbase-Tx)
- T568B/T568A UNIVERSAL COLOR PATTERN
- UL LISTED AND INTERTEK TEST
- LEAD-FREE & RoHS COMPLIANT BY TUV

Applications

- 10G BASE-T (IEEE 802.3an 10GIGABIT ETHERNET)
- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- POE, POE+(IEEE 802.3af,IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO

C69003 CAT6A Patch Panel, Shield 110 IDC Block



Features

- Fits all 19-inch rack
- Flexible locking wire with Cable Management Support Bar
- Compatible with C69001 Modular RJ45 Jack with Keystone style
- Support 24 ports Modular RJ45 Jack with Keystone style
- Fully compliant to Meet ISO/IEC Generic Cabling Standard 11801 and Meet CENELEC Generic Cabling Standard EN50173

Construction and Material

Descriptions

Product Type	RJ45 patch panel unload
Color	Black
Modules, quantity	24 ports
Panel Style	Straight
Rack Type	EIA 19 in
Rack Units	1
Total Ports, quantity	24 ports
Cable Type	Shielded
Material Type	High-impact, flame retardant, Powder-coated steel

Dimensions Specifications

Descriptions

Height	44.45 mm or 1.75 in
Width	482.6 mm or 19 in
Depth	with cable management 170 mm or 6.7 in

Environmental Specifications

Descriptions

Operating Temperature	-10 °C to +60 °C (+14 °F to +140 °F)
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative Humidity	Up to 95%, non-condensing
Flammability Rating	UL 94 V-0

Descriptions

The BELLCOMMS Shield Patch Panel unload 24 ports ranges of products are the next generation of data communications solutions. The Patch Panels are a perfect combination of sleek looks and outstanding performance. It can compatible to BELLCOMMS product with C69001 Modular RJ45 Jack Non-Shuttered with Keystone style, The Patch Panel is Black color and sleek face of the product comprises three designation-strip holders with screws are also provided with the product. The product is designed to be mounted on a 19-inch rack.

Material product are entire steel outer frame with plastic powder coat finish, colour of product is Black, Housing is high impact flame retardant plastic, UL ABS757



Standard

- Meet ISO/IEC Generic Cabling Standard 11801
- Meet CENELEC Generic Cabling Standard EN50173
- ANSI/TIA-568-C.2, ISO/IEC 60603-7 compliant
- RoHS directive 2002/95/EC compliant

Applications

- Horizontal distribution or equipment termination on long-distance communication
- Interactive termination on merger point
- Multi-user communication jack in working area.

Compatible to

C69001
Cat.6A FTP/STP keystone jack 180 degree Toolless screw cap



Order Part Number as Below.

Part Number.	Descriptions.
C69003	CAT.6A FTP/STP 24-port PATCH PANEL shielded UNLOAD with rear support bar

C69002, C69003

CAT6A plus Modular Plug RJ45 Shield

Screw-fit boot type

Low loss with stable data speed.

10G
Plus



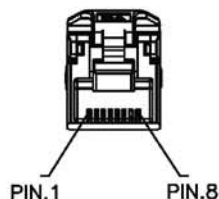
Features

- Low loss with stable data speed.
- Strain relief construction for flexible movement, durability, and fit.
- Reduces cross talk and interference
- More resistant to bending
- Sharp bend more than 20 times without breaking
- Thickened trigeminal chip to suppress a high success rate
- A larger contact area
- Transfer data faster more stable
- The structure high reliability connection for both stranded and solid cable
- Housing with High-strength Zinc die-Casting with nickel plated material prevents connector breakage

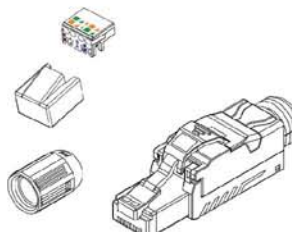
Construction and Material

Descriptions

Type	Cat6A Modular Plug RJ45 Shield
Material	Extractor : PC, UL 94V-2. Housing : Zinc die-Casting with nickel plated.
RJ45 plug	Housing : PC, UL 94V-2, Transparent red color(Pantone 1935C). Contact material : Phosphor bronze with 100 micro-inch nickel plated. Contact finish : Min. 50 micro-inch gold plated on surface contact area.
Cover	Cover : Zinc die-casting with nickel plated. Wire management bar : PC, white color, UL 94-V2.
IDC	Housing : PC, white color, UL 94-V2. Terminal : Titanium copper with tin plated.
Boot	Grounding contact : Zinc die-casting with nickel plated. Housing : Zinc die-casting with nickel plated. SR : PC, UL 94-V2, transparent color. CAP: PC, UL 94V-2, black color. PCB, UL 94-V0. Copper foil 1 tape. Dust cap : PE, black color.
Performance	T568A & T568B wiring. Insertion force : 30N max. (IEC 60603-7-5). Retention strength : 7. 7 kg between jack and plug. Operating temperature : -10°C to 60°C. (ISO/IEC 11801, ANSI/TIA 568 C. 2).
Life(mating cycles)	750 cycles min. (ISO/IEC 11801, IEC 60603-7-5). IDC : Sui table for 23-26AWG stranded and solid wire (Insulation Diameter : 0. 91-1. 31mm), min. 20 installation cycles. Suitable for cable jacket OD : 6. 0-7. 5mm. The mated plug should complied with IEC60603-7 and TIA-1096 Suitable for cable jacket OD : 6. 0-7. 5mm.



Front View Picture



Descriptions

The BELLCOMMS 10G Enhance Category6A Modular Plug Shield with standard 8 position modular plug and Standard following as The mated plug should complied with IEC60603-7 and TIA-1096. Now we have designed high performance with compliant ISO/IEC 11801/TIA 568.2-D requirement of CAT6A or 10G(XG), it more easy to termination and durable



Standard

- ANSI/TIA-568.2-D CATEGORY 6A
- ISO/IEC 11801:2017 CLASS EA
- EN50173-1 CATEGORY 6A
- UL/cUL LISTED AND INTERTEK TEST
- LEAD-FREE & RoHS COMPLIANT BY TUV
- Housing UL-94V-0 Polycarbonate

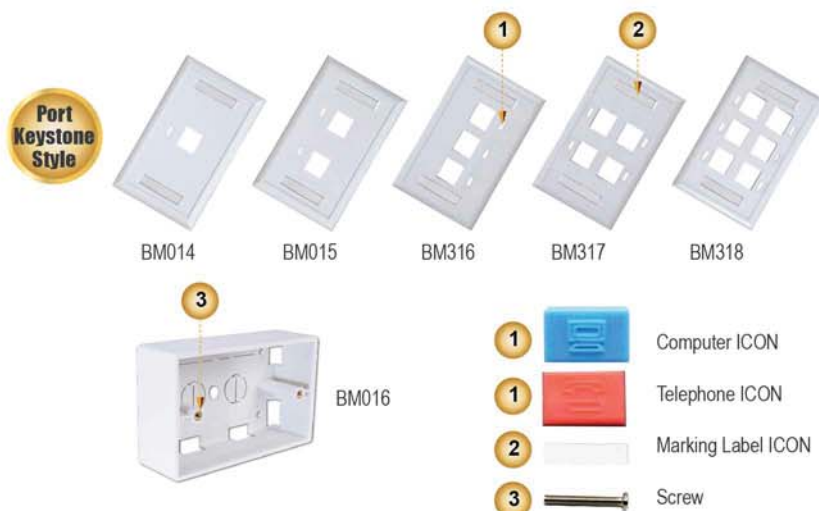
Applications

- 10G BASE-T (IEEE 802.3an 10GIGABIT ETHERNET)
- 1000 BASE-T (IEEE 802.3ab GIGABIT ETHERNET)
- 100 BASE-TX (IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- POE, POE+ (IEEE 802.3af, IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO
- IEEE 802.3AF(PoE) / IEEE 802.3AT (PoE+)
- LIMIT POWER- LP UL POE SAFTY STANDARD
- HDBASE T 2.0 STANDARD
- ETHERNET CAT INDUSTRIAL STANDARD.

Order Part Number as Below.

Part Number.	Descriptions.
C69002	CAT.6A FTP/STP modular plug FIELD TERMINATE, Toolless screw cap
C69052	CAT.6A utp modular plug FIELD TERMINATE, Toolless screw cap

Face Plate, Keystone Style Surface Mount Box



Descriptions

The BELLCOMMS Face Plate with Kesystone style and it compatible with all Moudular RJ45 Jack Keystone style, have more variety ports each 1, 2,3,4 and 6 ports as refer as picture show. Surface Mount Box is it fit all face plate every model and both are White color with alway look it shiny



Standard

- TIA/EIA 606
- ISO/IEC11801
- TIA/EIA568 standards
- comply to GB/T 5169.7-1985 standards
- UL and RoHS compliant

Applications

- Networking,Telecommunication
- Modular RJ45 Keystone Jack

Features

- Face Plate are made of high strength ABS plastic, years of durable use.
- More compatible with Modular RJ45 Jack Keystone Style and termination makes installation fast and easy.
- Including standard US Modular wall mount.
- Performance exceed TIA/EIA standard.

Construction and Material

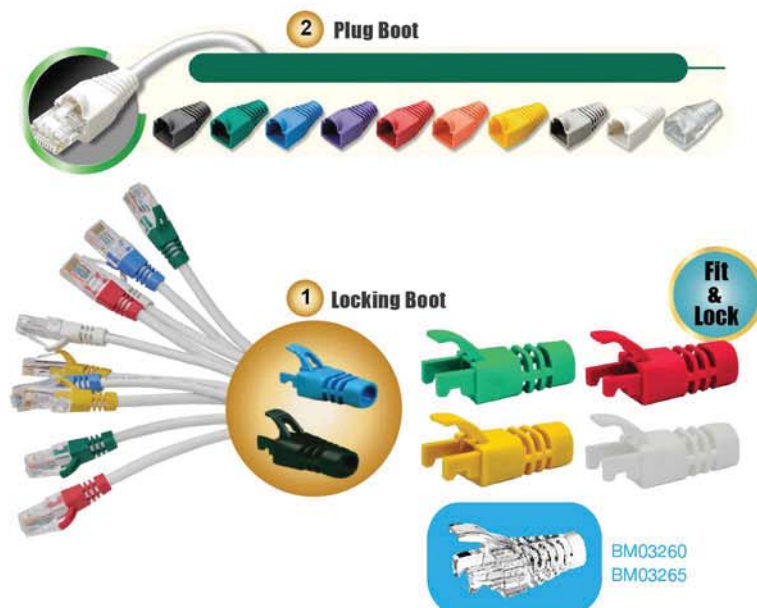
Descriptions

Product Type	Face Plate
Compatible	All Modular RJ45 or RJ11 Jack Keystone style
Port type	Keystone Style
Material Body	ABS/PC UL94V-0
Material ICON	ABS/PC UL94V-0
Dimension	L 114 x W 70 x H 5.5mm (2" x 4" standard)
Compliant	UL and RoHS
Product Type	Surface Mount Box
Compatible	Fit with Face plate dimesion with L 114 x W 70mm
Material Screw	2 Screw steel
Material Body	ABS/PC UL94V-0
Dimension	L 114 x W 70 x H 37mm (2" x 4" standard)
Compliant	UL and RoHS

Order Part Number as Below.

Part Number.	Descriptions.
BM014	Face Plate 1 Port Keystone Syle with ICON, Lable ID, Shiny White Color, L 114 x W 70 x H 5.5mm (2" x 4" standard)
BM015	Face Plate 2 Port Keystone Syle with ICON, Lable ID, Shiny White Color, L 114 x W 70 x H 5.5mm (2" x 4" standard)
BM316	Face Plate 3 Port Keystone Syle with ICON, Lable ID, Shiny White Color, L 114 x W 70 x H 5.5mm (2" x 4" standard)
BM317	Face Plate 4 Port Keystone Syle with ICON, Lable ID, Shiny White Color, L 114 x W 70 x H 5.5mm (2" x 4" standard)
BM318	Face Plate 6 Port Keystone Syle with ICON, Lable ID, Shiny White Color, L 114 x W 70 x H 5.5mm (2" x 4" standard)
BM016	Surface Box L 114 x W 70 x H 37mm (2" x 4" standard)

Plug boot for Modular Plug RJ45



Features

- Boots are made of high quality plastic and durable for using.
- More compatible with Modular Plug RJ45 Style and termination makes installation fast and easy.
- Performance exceed TIA/EIA standard.

Construction and Material

Product Type	Boot
Compatible	All Modular Plug RJ45 style
Material Body	PVC
Temperature Range	-40°C ~ 70°C
Compliant	UL and RoHS

Descriptions

Descriptions

The BELLCOMMS Boot for RJ45 Strain Relief is designed specifically for the Modular Plug as CAT5E, CAT6 and CAT6A connector. The unique design allows the strain relief to be crimped with the connector, making it an integral part of the complete assembly. Once terminated, the strain relief will not pull off the connector.



Standard

- ISO/IEC11801
- TIA/EIA568 standards
- UL and RoHS compliant

Applications

- Networking, Telecommunication
- Modular Plug RJ45



BC-1031

คีมบีบสาย (IDC110) RJ45 Jack และ Patch Panel



BC-CR001

คีมบีบหัว RJ45, RJ12 และ 11 Plug



BC-352

คีมปลอกสาย UTP, RG59, 6, 11, 7 และอื่นๆ

Order Part Number as Below.

1

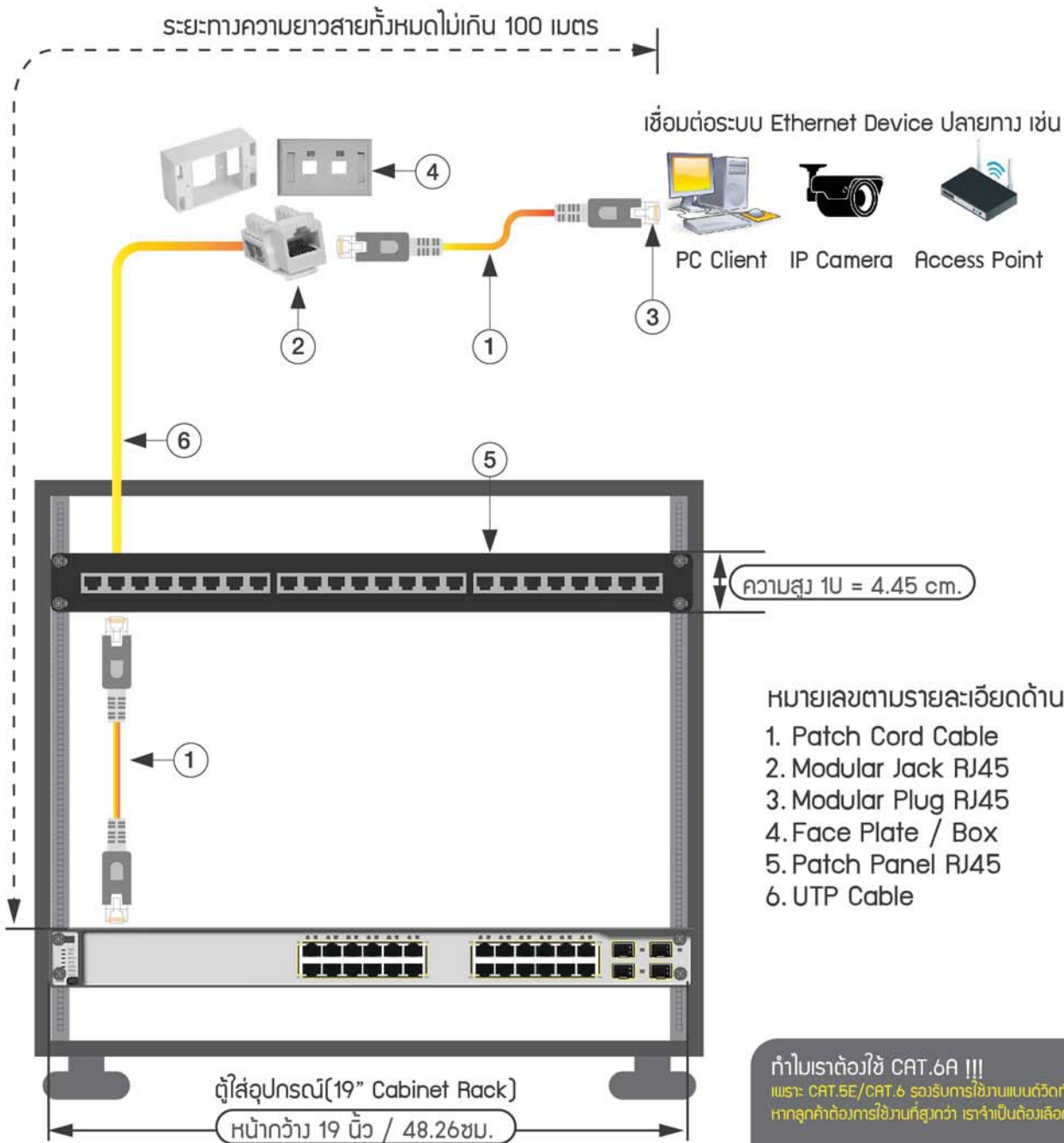
Part Number.	Descriptions.
BC-01001	Locking Plug Boot for CAT6A cable, Ø 6.8 mm, White Color
BC-01901	Locking Plug Boot for CAT6 cable, Ø 6.5 mm, White Color
BC-01902	Locking Plug Boot for CAT6 cable, Ø 6.5 mm, Red Color
BC-01903	Locking Plug Boot for CAT6 cable, Ø 6.5 mm, Green Color
BC-01904	Locking Plug Boot for CAT6 cable, Ø 6.5 mm, Blue Color
BC-01905	Locking Plug Boot for CAT6 cable, Ø 6.5 mm, Yellow Color
BC-02001	Locking Plug Boot for CAT5E cable, Ø 5.5 mm, White Color
BC-02002	Locking Plug Boot for CAT5E cable, Ø 5.5 mm, Red Color
BC-02003	Locking Plug Boot for CAT5E cable, Ø 5.5 mm, Green Color
BC-02004	Locking Plug Boot for CAT5E cable, Ø 5.5 mm, Blue Color
BC-02005	Locking Plug Boot for CAT5E cable, Ø 5.5 mm, Yellow Color
BM03260	Locking Plug Boot for CAT6(24AWG) cable, Ø 6.0 mm, PC, Transparent
BM03265	Locking Plug Boot for CAT6(23AWG) cable, Ø 6.5 mm, PC, Transparent

Order Part Number as Below.

2

Part Number.	Descriptions.
BT001	Plug boot for Cat5e/Cat6, Ivory color
BT002	Plug boot for Cat5e/Cat6, Red color
BT003	Plug boot for Cat5e/Cat6, Green color
BT004	Plug boot for Cat5e/Cat6, Blue color
BT005	Plug boot for Cat5e/Cat6, Yellow color
BT006	Plug boot for Cat5e/Cat6, Black color
BT007	Plug boot for Cat5e/Cat6, Orange color
BT008	Plug boot for Cat5e/Cat6, White color
BT009	Plug boot for Cat5e/Cat6, Gray color

NETWORKS CABLING GUIDE



หมายเลขตามรายละเอียดด้านล่าง

1. Patch Cord Cable
2. Modular Jack RJ45
3. Modular Plug RJ45
4. Face Plate / Box
5. Patch Panel RJ45
6. UTP Cable

ทำไมเราต้องใช้ CAT.6A !!!

เพราะ CAT.5E/CAT.6 รองรับการใช้งานแบบตัวต่อที่ 1 Gbps เท่านั้น(ตามตาราง)
หากลูกค้าต้องการใช้งานที่สูงกว่า เราจำเป็นต้องเลือกใช้ CAT.6A เท่านั้น!!!!

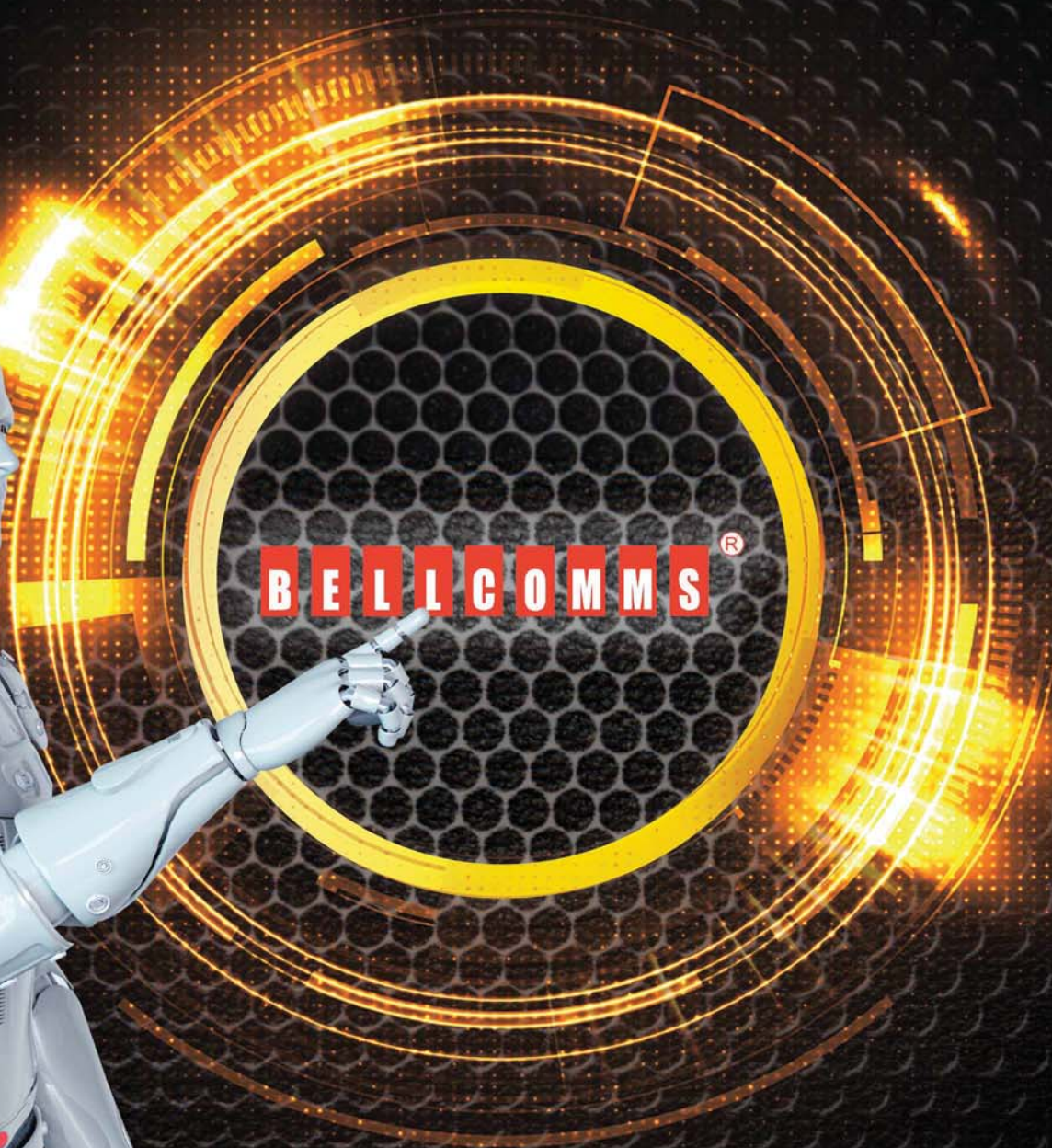
ตารางแสดงคุณสมบัติสำหรับเลือกใช้สายแต่ละรุ่นดังนี้

Cable	Frequency support	Bandwidth Support
CAT.5E	100 MHz	1 Gbps
CAT.6	250 MHz	1 Gbps
CAT.6A	500 MHz	10 Gbps
CAT.8	2000 MHz	25 and 40 Gbps

Standards Compliance

TIA-568-C.2, ANSI/TIA 569, ISO/IEC 11801 and UL 444.





NETWORKS

CABLING SYSTEM



บริษัท ก้าวเข้าสู่ปีที่ 25
โทร 02-508-0977 (ติดต่อ 20 คู่สาย)
WWW.NCSNETWORK.COM