

bticino

BTNET



CATALOGUE 06-07

N1506TH

Copper cabling solution

2 types of connection for maximum choice

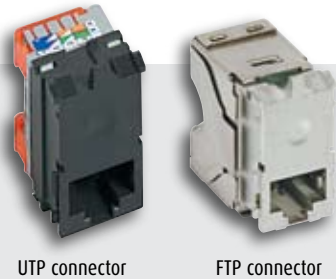
BTNET offers a wide range of products to make copper wiring. It includes patch panels, patch cords, cables to make UTP and FTP vertical and horizontal cabling in cat. 5E and cat. 6 and solutions for workstations which fit into all the BTicino series.

BTicino proposes two types of copper cabling:
TOOLLESS innovative cabling system which requires no tools (impact tools) to wire the cable.
110 IDC cabling solution using impact tool to wire the cable.

The copper connection offered conforms perfectly to standard TIA/EIA568A/B and IEC EN 50173 in performance and quality.

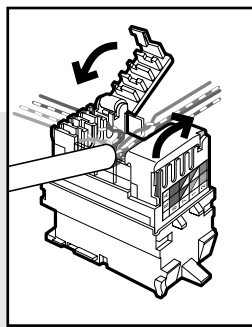
IDC TOOLLESS CONNECTION

Cat. 5E
 Cat. 6



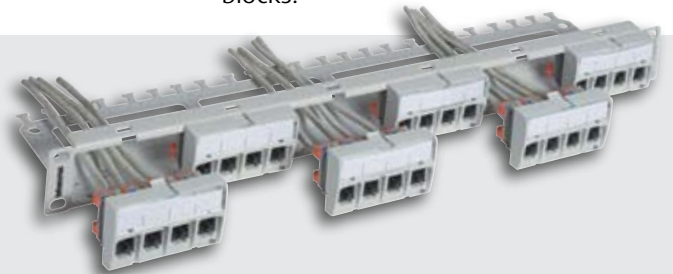
UTP connector

FTP connector



MODULAR AND PRELOADED PATCH PANELS

The 24-port patch panels (light grey) can be used to make enclosures and cabinets with maximum simplicity thanks to the removable modular blocks.



THE TOOLLESS CONNECTION SYSTEM

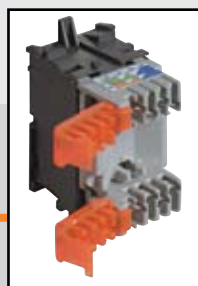
is made up of:

- Category 5E and 6 UTP and FTP connectors for workstations coordinated for all the BTicino series.
- Loose UTP and FTP connectors for modular panels and self-bearing cover plates.

- UTP and FTP preloaded and modular patch panels available in category 5E and 6 complete with: screws, nuts in cage and identification plates.
- Telephone panels with 48 cat. 3 RJ45 connectors.

BTNET ENCLOSURES

features appearance and technical solutions which considerably improve all the aspects linked to the installation itself and to wiring the patch panels.



UTP and FTP connectors: the heart of the whole TOOLLESS system



Category 5E Category 6

CATEGORY 5E AND 6
 Easily recognisable thanks to the colour on the back of the connector: grey for cat. 5E connectors and black for cat. 6 connectors



SHIELDING
 TOOLLESS FTP connectors have metal shielding on the back which differs depending on the type of use.



EASY TO CONNECT
 Thanks to the modularity of the patch panels, the cables are wired simply and quickly

BTNET fibre optic cabling solution

To make data transmission network which perform better in terms of speed, bandwidth and security against electromagnetic disturbances, BTNET offers a complete solution of passive fibre optic devices. The BTNET components for fibre optics are absolutely safe and easy to use. Their main features are:

HIGH PERFORMANCE

Fibre optic components to use all the potential offered by this technology such as greater speed and greater available bandwidth

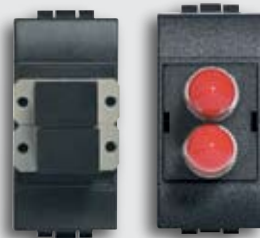
MODULARITY OF SOLUTION

The fibre box can be easily fitted with accessories with the specific types of module required. The fibre optic product range

is made up for:

- ST and SC connectors for workstation
- modular fibre box for enclosures and cabinets
- SC-SC, ST-ST, ST-SC, MTRJ-SC and STRJ-ST fibre optic connectors with cold wiring kit

EVERYTHING NEEDED TO MAKE A FIBRE OPTIC NETWORK



ST and SC connectors and ST, SC and MTRJ patch cords



Loose and tight fibre optic cables, from 4 to 12 fibre 50/125µm and 62.5/125µm

CERTIFICATIONS AND CUSTOMER SERVICE

THE STANDARDS

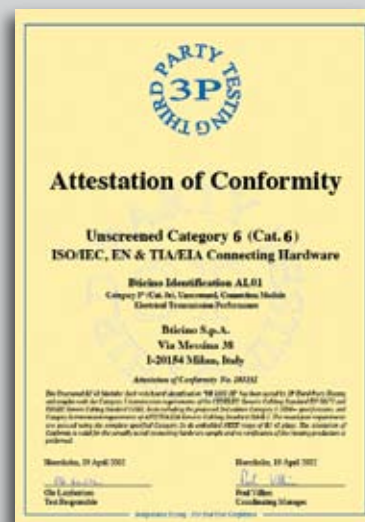
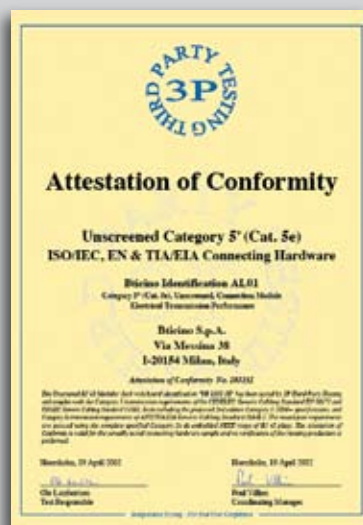
When making correct structured wiring the rules defined by the various standards

- TIA/EIA 568A/B: the first standard (American) which defines the making of structured wiring.
- ISO/IEC 11801: international standard.
- EN50173-1 (2003 Edition): European standard must be born in mind.

The following standards define the main and essential parameters for making wiring, which goes from the design of the system itself, its placement and how to test each link to the certification of the system which must be able to support the transmission speeds required.

THE CERTIFICATIONS

BTicino has always been made by the quality and reliability of its products. All the BTNET products are tested in our Quality Laboratories and in the Test Room. As a further guarantee of the respect of standards, we also work with External 3P Certification Organisations.



ระบบ LAN แบบ Toolless ของบิทีชีโน

ระบบเครือข่าย network ของบิทีชีโน มีชื่อเสียงในแถบยุโรปมากกว่า 10 ปี จึงได้มีการพัฒนาผลิตภัณฑ์ โดยตลอด เพื่อเน้นความสะดวกในการติดตั้งได้อย่างรวดเร็ว โดยเฉพาะระบบ LAN ของบิทีชีโน ซึ่งเป็นอุปกรณ์แบบ toolless คือติดตั้งได้โดยไม่ต้องใช้เครื่องมือ เพื่อเป็นการประหยัดเวลา ง่ายต่อการติดตั้งและซ่อมบำรุง

ระบบ LAN ของบิทีชีโน มีคุณภาพ โดยผ่าน มาตรฐาน ISO/IEC 11801, EN 50773-1, standard TIA/EIA 568A/B และ 3P Certificate (Third Party Testing)

หลายประเทศในยุโรปได้ใช้ อุปกรณ์ของบิทีชีโน ในส่วนของ โรงงาน รีสอร์ท คอนโดมีเนียม โรงพยาบาล อาคารสูงเอกชน รวมไปถึงงานราชการและ รัฐวิสาหกิจ อีกด้วย



UTP and FTP cables category 5E and 6

UTP CABLE - CATEGORY 5E



C9881U/5E

Unshielded UTP cable in category 5E with solid copper 24 AWG (0.51 mm.) conductors, polyolefin insulation, 4 pairs of twisted conductors - low-flame-propagation PVC sheath - conformity to ISO/IEC 11801- grey

Item code	Sheath	Length	Packaging	Price/baht*
C9881U/5E	PVC	305m	box	3,730
C9882U/5E	NH	305m	box	4,315

UTP CABLE - CATEGORY 6



C9882U/6

Unshielded UTP cable in category 6 with solid copper 24 AWG (0.57 mm.) conductors, polyolefin insulation, 4 pairs of twisted conductors with internal separator - halogen-free sheath with low emission of fumes and toxic gas - conformity to ISO/IEC 11801- blue

Item code	Sheath	Length	Packaging	Price/baht*
C9881U/6	PVC	305m	reels	5,690
C9882U/6	NH	305m	coil	7,310

FTP CABLE - CATEGORY 5E



C9881F/5E

Shielded FTP cable in category 5E with solid copper 24 AWG (0.51 mm.) conductors total shielding with aluminium foil and tinned copper continuity wire - 4 pairs of twisted - conformity to ISO/IEC 11801- grey

Item code	Sheath	Length	Packaging	Price/baht*
C9881F/5E	PVC	305m	box	5,120

FTP CABLE - CATEGORY 6



C9882F/6

Shielded FTP cable in category 6 with solid copper 24 AWG (0.51 mm.) conductors total shielding with aluminium foil and tinned copper continuity wire - 4 pairs of twisted - conformity to ISO/IEC 11801- blue

Item code	Sheath	Length	Packaging	Price/baht*
C9882F/6	NH	305m	coil	9,070

*These prices will be changed according to the copper market.

Toolless IDC connection category 5E and 6 UTP unshielded

RJ45 TOOLESS IDC CONNECTORS FOR SELF-BEARING COVER PLATES



C9079/5E
C9079/6



C9079/5S
C9079/6S

RJ45 connectors category 5E and 6 UTP and FTP type - insulation cutting connection without using tools - for UTP and FTP 22 - 24 AWG 4-pair 100Ω cable - conformity to standards TIA/EIA 568A/B and EN 50173 - connection T568A/B

Category 5E	Type	Price/baht
C9079/5E	UTP	125
C9079/5S	FTP	250
Category 6		
C9079/6	UTP	162
C9079/6S	FTP	365

SELF-BEARING COVER PLATES FOR TOOLLESS RJ45 IDC CONNECTORS



C9802/TBA



C9804/TBA



C9500T/BA

4 and 2-place self-bearing cover plates to be completed with connectors and blank inserts suitable for installation on 503- type boxes - LIGHT white

Item code	Description	Price/baht
C9802/TBA	2-place cover plate	20
C9804/TBA	4-place cover plates	76

Blank insert for self-bearing cover plates

Item code	Description	Price/baht
C9500T/BA	white	31

TOOLLESS RJ45 UTP CONNECTORS - CATEGORY 5E AND 6



M9079/5E
M9079/6



L4279/5E
L4279/6



N4279/5E
N4279/6



NT4279/5E
NT4279/6

RJ45 connectors - category 5E and 6 - connection with insulation cutter without using tools - for unshielded UTP 22 - 24 AWG 4-pair 100Ω cable - conformity to standards TIA/EIA T568A/B and EN50173 - complete with rating plate and anti-dust hatch - T568A/B

Item code	Descriptions	Price/baht
Category 5E		
M9079/5E	MAGIC ADVANCE	360
L4279/5E	LIVING	385
N4279/5E	LIGHT	385
NT4279/5E	LIGHT TECH	460
Category 6		
M9079/6	MAGIC ADVANCE	390
L4279/6	LIVING	560
N4279/6	LIGHT	560
NT4279/6	LIGHT TECH	620

PLASTIC COVER PLATES, WHITE COLOR



M903/11P



M903/12P



M903/13P



M906/14P



M906/16P

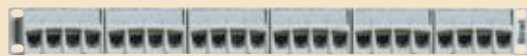
Item code	Descriptions	Price/baht
M903/11P	ขนาด 1 ช่อง	20
M903/12P	ขนาด 2 ช่อง	20
M903/13P	ขนาด 3 ช่อง	20
M906/14P	ขนาด 4 ช่อง	76
M906/16P	ขนาด 6 ช่อง	76

Patch panels and cords RJ connectors

UTP PRELOAD PATCH PANELS - CATEGORY 5E AND 6



C9024/5TA
C9024/6TA



C9024/5STA
C9024/6STA

Preloaded patch panels - category 5E and 6 - with RJ45 connector - insulation cutting connection without using tools - for unshielded UTP 22 - 24 AWG 4-pair 100Ω cable - conformity to standard TIA/EIA T568A/B and EN50173 - grey - complete with screws, nuts in cage and identification plates

Item code	Description	No. of ports	Rack units	Connection	Price/baht
C9024/5TA	cat. 5E	24	1	T568A/B	3,500
C9024/6TA	cat. 6	24	1	T568A/B	4,900

Preloaded patch panels - category 5E and 6 - with RJ45 connector - insulation cutting connection without using tools - for unshielded STP and FTP 22 - 24 AWG 4-pair 100Ω cable - conformity to standard TIA/EIA T568A/B and EN50173 - black - complete with screws, nuts in cage and identification plates

Item code	Description	No. of ports	Rack units	Connection	Price/baht
C9024/5STA	cat. 5E	24	1	T568A/B	8,780
C9024/6STA	cat. 6	24	1	T568A/B	9,500

UTP PATCH CORD - CATEGORY 5E / 6



C92..U/5E



C92..U/6

Patch cords with RJ45 connectors - UTP cable - PVC sheath - with incorporated SNAGGLE

Length (m)	Cat. 5E grey	Price/baht	Cat. 6 blue	Price/baht
1	C9210U/5E	70	-	
2	C9220U/5E	97	C9220U/6	210
3	C9230U/5E	115	C9230U/6	260
5	C9250U/5E	150	C9250U/6	375

Patch cords with RJ45 connectors - FTP cable

Length (m)	Cat. 5E grey	Price/baht	Cat. 6 blue	Price/baht
1	C9215F/5E	105	-	
2	C9220F/5E	125	C9220F/6	355
3	C9230F/5E	170	C9230F/6	450
5	C9250F/5E	250	C9250F/6	610

RJ11 AND RJ12 MODULAR TELEPHONE CONNECTORS



M9021M/4
M9021M/6

L4258/12

L4258/12

NT4258/12

6-pin connectors for telephone connection- 110 cutting connection

Item code	Description	Price/baht
M9021M/4	RJ11, 2 pairs with terminal connection MAGIC ADVACNE	148
M9021M/6	RJ12, 3 pairs with terminal connection MAGIC ADVACNE	250
L4258/12	RJ12, 3 pairs, LIVING serie	1,107
N4258/12	RJ12, 3 pairs, LIGHT serie	1,107
NT4258/12	RJ12, 3 pairs, LIGHT TECH serie	1,130

TOOLS FOR INSTALLATION



C9907



C9901



C9902

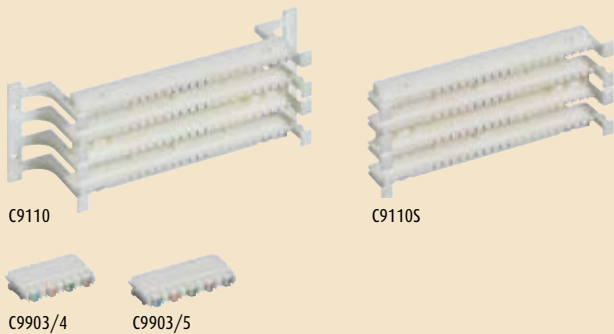


C9906

Item code	Descriptions	Price/baht
C9907	tool to wire the cable on 110 strip	14,100
C9901	tool to wire the twisted cable on 110 terminal board-complete with blade for cable connecting	4,500
C9906	pliers for wiring connectors RJ11, RJ12 and RJ45	4,750
C9902	tool to remove the twisted cable sheath and strip the pairs without notching the copper conductor - 5 cavities with different stripping diameters	810

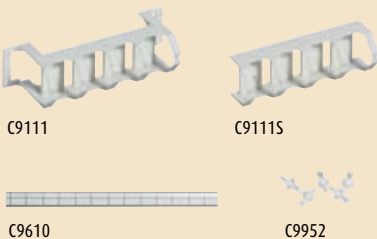
110 connect cross-connect system wiring block & connecting block

110 RACK PATCH PANELS - CATEGORY 5



Item code	Descriptions	Price/baht
C9110	patch panel with PVC legs for front wiring of 100 pairs 110 insulation cutting connection - hooked by means of screws for surface mounting - category 5	720
C9110S	patch panel with PVC legs as above flat hooking by means of rivets for PDS panels - category 5	485
C9903/4	100-connection block with 4 pairs to terminate 22 to 26 AWG cables on 110 patch panels	80
C9903/5	100-connection block as above with 5 pairs	80

FAIRLEAD MODULES AND ACCESSORIES



Item code	Descriptions	Price/baht
C9111	fairlead strip with PVC legs for the horizontal organisation of the patch cords - complete with 5 cable-guide rings - back hooked by means of screw for surface mounting	465
C9111S	fairlead strip without legs - as above - hooked by means of rivets for PDS panels	240

Identification labels and rivets

Item code	Descriptions	Price/baht
C9610	identification label for 110 patch panel	65
C9952	package of 12 rivets to attach 110 patch panels 370 and fairlead strip on 19" PDS panels	

110 PATCH CORD ASSEMBLIES



110 - 110 patch cord

Item code	Description	Price/baht
C9211/1	cord for 110 patch strip for telephony applications- 1-pair - 110-110 terminations - grey - 1 metre long	320
C9212/1	cord as above - 1.5 metre long	320
C9213/1	cord as above - 3 metre long	340

110 - RJ45 patch cord

Item code	Description	Price/baht
C9221/1	cord for 110 patch strip for telephony and data applications - 110-terminations - RJ45 1-pair - 4 and 5 cabled pins - grey - 1 metre long	175
C9222/1	cord as above - 1.5 metre long	185
C9223/1	cord as above - 3 metre long	225
C9222/2	cord for 110 patch strip for data applications - 110-terminations RJ45 2-pair - 1-2 and 3-6 cabled pins - grey - 1.5 metre long	450
C9222/2N	cord as above - 3 metre long	450
C9222B/4	cord for 110 patch strip for telephony and data applications -110-terminations - RJ45 4-pair- grey - for T568A wiring - 1 metre long	210
C9222A/4	cord as above - 1.5 metre long	210

Pop-up and floor box Accessories

POP-UP ACCESSORIES AND BOXES



150627A



150627G



150560AC



1505600T



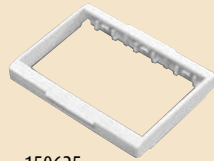
150560SB



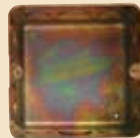
150628A



150628G



150625



150620L

Item code	Descriptions	Price/baht
150627A	aluminum Pop-Up without socket Living & Light	1,200
150627G	golden Pop-Up without socket Living & Light	2,495
150560AC	floor socket aluminum color - Living & Light	640
1505600T	floor socket gold color - Living & Light	900
150560SB	floor socket plastic floor box 100x100 mm - Living & Light	330
150628A	2P+T-16A socket MAGIC ADVANCE, aluminum color IPX4	1,640
150628G	2P+T-16A socket MAGIC ADVANCE, golden color IPX4	2,935
150625	Pop-Up adapter for MAGIC ADVANCE	46
150620L	zinc coated flush box 100x100x58 mm	90

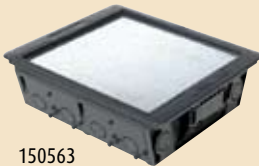
FLOOR BOX ACCESSORIES AND BOXES



150561



150562



150563



150564



150561S



150563S



150591

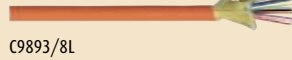
Item code	Descriptions	Price/baht
150561	small box 185x270x93 mm can fit 10 socket-devices plain cover with black-plastic frame	2,265
150562	small box 185x270x93 mm can fit 10 socket-devices stainless-steel cover with black-plastic frame	2,715
150563	big box 305x270x93 mm can fit 20 socket-devices plain cover with black-plastic frame	3,253
150564	big box 305x270x93 mm can fit 20 socket-devices stainless-steel cover with black-plastic frame	3,860
150561S	metal-floor box for small box 202x279x97 mm	2,245
150563S	metal-floor box for big box 322x279x97 mm	2,460
150591	supporting frame	150

Fiber optic cabling system

LOOSE FIBRE OPTIC CABLE



C9892/8L



C9893/8L

Item code	No. of fibres	Length (m)	Size (mm)	Price/baht
C9892/4L	4	1000	62.5/125	90,000
C9892/8L	8	1000	62.5/125	150,000
C9892/12L	12	1000	62.5/125	170,000
C9893/4L	4	1000	50/125	80,000
C9893/8L	8	1000	50/125	101,000

FIBRE BOX AND ACCESSORIES



C9150N



C9120ST/ST



C9120SC/SC



C9120



C9150



C9350ST



C9350SC

Modular fibre box for making both SC and ST connections, depending on the modules chosen. Mixed installations can thus be made and the cabinet filled completely.

Item code	Descriptions	Price/baht
C9150N	patch cabinet set up to contain 24 F.O. ST or SC couplers - complete with clips to manage spare fibre - 1 rack unit	3,100

Coupling modules for fibre box

Item code	Descriptions	Price/baht
C9120ST/ST	F.O. ST.ST module for rack patch cabinet with 6 ST bushes	550
C9120SC/SC	F.O. SC.SC module for rack patch cabinet with 6 ST bushes	660
C9120	blank insert for fibre bloc item C9150N	70

Fibre box and surface-mounted modules

Item code	Descriptions	Price/baht
C9150	patch box set up to contain 6 F.O. ST or SC couplers	6,000
C9350ST	optic module preloaded with 6 SC-ST couplers per box	680
C9350SC	module as above with 6 SC-SC couplers	1,650

FIBER OPTIC PATCH CORD ASSEMBLIS



C9202MT/ST/N



C9202SC/ST/N
C9202SC/ST

Multimode 50/125

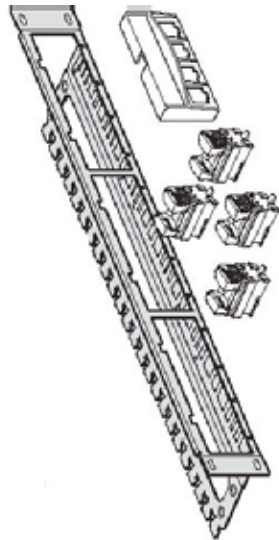
Item code	Descriptions	Price/baht
C9202SC/N	patch cord with duplex SC-SC terminations - multimode fibre optic cable 50/125mm - grey - 2 metres long - LSZH sheath	1,100
C9202ST/N	patch cord with duplex ST-ST terminations - multimode fibre optic cable 50/125mm - grey - 2 metres long - LSZH sheath	1,100
C9202SC/ST/N	patch cord with duplex SC-ST terminations - multimode fibre optic cable 50/125mm - grey - 2 metres long - LSZH sheath	1,100
C9202MT/ST/N	patch cord with MTRJ terminations - ST duplex - multimode fibre optic cable 50/125mm - orange - 2m long - LSZH sheath	1,300
C9202LC/ST/N	patch cord with LC terminations - ST duplex - multimode fibre optic cable 50/125mm - orange - 2m long - LSZH sheath	1,550

Multimode 62.5/125

Item code	Descriptions	Price/baht
C9202SC	patch cord with duplex SC-SC terminations - multimode fibre optic cable 62.5/125mm - grey - 2 metres long - LSZH sheath	1,100
C9202ST	patch cord with duplex ST-ST terminations - multimode fibre optic cable 62.5/125mm - grey - 2 metres long - LSZH sheath	1,120
C9202SC/ST	patch cord with duplex SC-ST terminations - multimode fibre optic cable 62.5/125mm - grey - 2 metres long - LSZH sheath	1,200
C9202MT/ST	patch cord with MTRJ terminations - ST duplex - multimode fibre optic cable 62.5/125mm - grey - 2m long - LSZH sheath	1,320
C9202LC/ST	patch cord with LC terminations - ST duplex - multimode fibre optic cable 62.5/125mm - grey - 2m long - LSZH sheath	1,550

Technical information

C9024/5TA : 19" Unshielded preload patch panel cat. 5E - 24 portsc



General characteristics C9024/5TA

- Patch panel 1U RACK
- 6 Modules with 4-port modular with individually replaceable jacks RJ45
- 24 modular jack RJ45 UTP cat. 5E toolless for AWG24 – AWG22 conductors
- Type of connections: T568A o T568B
- Installation accessories: not required
- With all accessories for installation on 19" rack mountable

Materials

• Panel	Painted plate: RAL 7035
• Jack housing	Polycarbonate
• Contacts	Gold/nickel
• Metal parts	Bronze

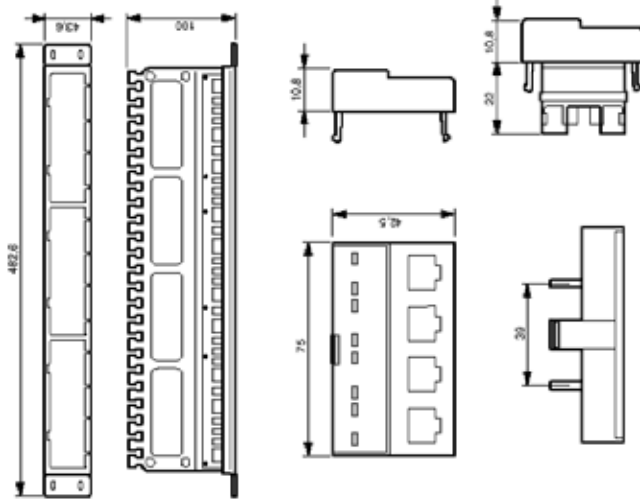
Type of connections



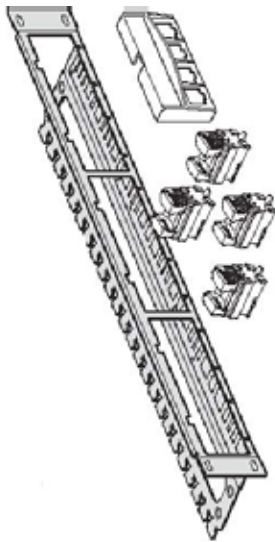
Performance										
Frequency (MHz)	1	4	8	10	16	20	25	31.25	62.5	100
Insertion Loss (dB) Max *	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4
	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	24.1	20.0
Return Loss (dB) Min*	65.0	65.0	64.9	63.0	58.9	57.0	55.0	53.1	47.1	43.0
	65.0	63.1	57.0	55.1	51.0	49.1	47.1	45.2	39.2	35.1

* Min and Max values are in according to TIA/EIA 568-B.2

Panel dimensions



C9024/6TA : 19" Unshielded preload patch panel cat. 6 - 24 ports



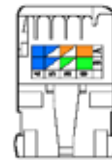
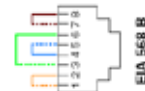
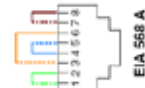
General characteristics C9024/6TA

- Patch panel 1U RACK
- 6 Modules with 4-port modular with individually replaceable jacks RJ45
- 24 modular jack RJ45 UTP cat.6 toolless for AWG24 – AWG22 conductors
- Type of connections: T568A o T568B
- Installation accessories: not required
- With all accessories for installation on 19" rack mountable

Materials

- Panel
Painted plate: RAL 7035
- Jack housing
Polycarbonate
- Contacts
Gold/nickel
- Metal parts
Bronze

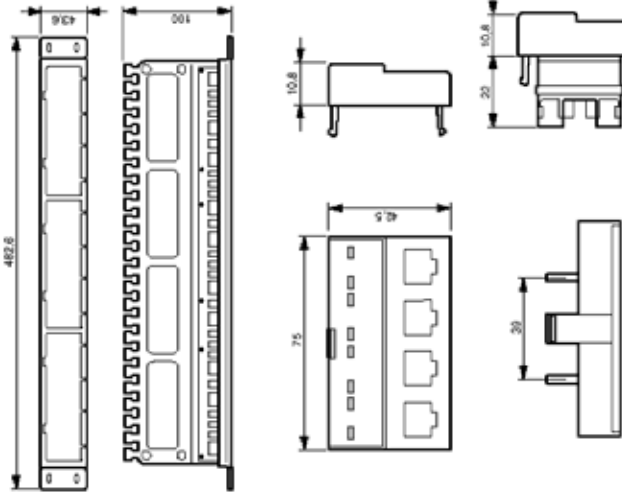
Type of connections



Performance												
Frequency (MHz)	1	4	8	10	16	20	25	31.25	62.5	100	200	250
Insertion Loss (dB) Max *	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.11	0.16	0.20	0.28	0.32
Return Loss (dB) Min *	30	30	30	30	30	30	30	30	28	24	18	16
NEXT (dB) Min *	75.0	75.0	75.0	74.0	69.9	68.0	66.0	64.1	58.1	54.0	48.0	46.0
FEXT (dB) Min *	75.0	71.1	65.0	63.1	59.0	57.1	55.1	53.2	47.2	43.1	37.1	35.1

* Min and Max values are in according to TIA/EIA 568-B.2

Panel dimensions

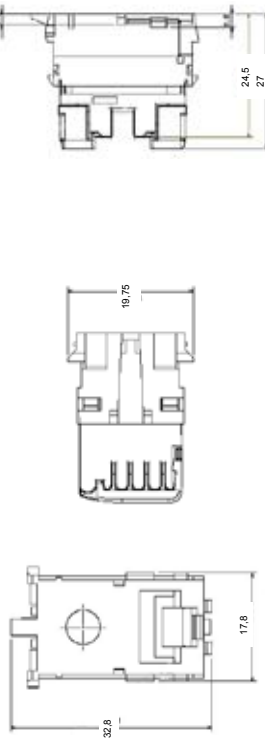


Technical information

C9079/5E : RJ45 Cat. 5E Unshielded toolless IDC modular jacks

Item	Description
C9079/5E	Toolless IDC Modular Jack RJ45 UTP cat. 5E for modular panels and self-bearing cover plates
L4279/5E	Toolless IDC Modular Jack RJ45 UTP cat. 5E Series LIVING INTERNATIONAL
M4279/5E	Toolless IDC Modular Jack RJ45 UTP cat. 5E Series LIGHT
NT4279/5E	Toolless IDC Modular Jack RJ45 UTP cat. 5E Series LIGHT TECH
5979/5E	Toolless IDC Modular Jack RJ45 UTP cat. 5E Series MAGIC
AM5979/5E	Toolless IDC Modular Jack RJ45 UTP cat. 5E Series MATIX
A5979/5E	Toolless IDC Modular Jack RJ45 UTP cat. 5E Series MATIX Ivory

Dimensions



Cabling



Type of connection



Materials	
• Modul insulation	Polycarbonate
• Contacts	Gold/ nickel
• Metal parts	Bronze

Specification

• Possibility of connections and disconnections	
• Endurance	2500 operations (plugging in/ unplugging)
• Operating temperature	-40° - +70°-C
• Terminals	T568A T568B
• Conductors permitted	UTP cable AWG24 -AWG22
• Impact tool	Not required

Performance

Frequency (MHz)	1	4	8	10	16	20	25	31.25	62.5	100	200	250
Insertion Loss (dB) Max*	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.11	0.16	0.20	0.28	0.32
Return Loss (dB) Min*	30	30	30	30	30	30	30	30	28	24	18	16
NEXT (dB) Min*	75.0	75.0	75.0	74.0	69.9	68.0	66.0	64.1	58.1	54.0	48.0	46.0
FEXT (dB) Min*	75.0	71.1	65.0	63.1	59.0	57.1	55.1	53.2	47.2	43.1	37.1	35.1

* Min and Max values are in according to requirements of TIA/EIA 568-B.2

Standard

TIA/EIA 568-B.2
EN 50173
ISO/IEC 11801
NCF 20 730

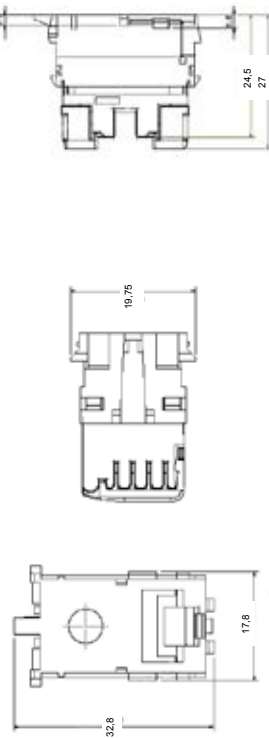
Applications

Gigabit Ethernet (1000 Base T/TX), 10 e 100 Base T/TX, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN.

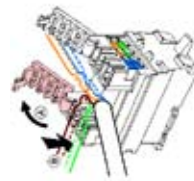
C9079/6 : RJ45 Cat. 6 Unshielded toolless IDC modular jacks

Item	Description
C9079/6	Toolless IDC Modular Jack RJ45 UTP cat. 6 for modular panels and self-bearing cover plates
L4279/6	Toolless IDC Modular Jack RJ45 UTP cat. 6 Series LIVING INTERNATIONAL
N4279/6	Toolless IDC Modular Jack RJ45 UTP cat. 6 Series LIGHT
NT4279/6	Toolless IDC Modular Jack RJ45 UTP cat. 6 Series LIGHT TECH
5979/6	Toolless IDC Modular Jack RJ45 UTP cat. 6 Series MAGIC
AM5979/6	Toolless IDC Modular Jack RJ45 UTP cat. 6 Series MATIX
A5979/6	Toolless IDC Modular Jack RJ45 UTP cat. 6 Series MATIX Ivory
HC4279/6	Toolless IDC Modular Jack RJ45 UTP cat. 6 Series AXOLUTE
HS4279/6	Toolless IDC Modular Jack RJ45 UTP cat. 6 Series AXOLUTE

Dimensions



Cabling



Type of connection



Materials	
Modul insulation	Polycarbonate
Contacts	Gold/nickel
Metal parts	Bronze

Specification

Possibility of connections and disconnections	
Endurance	2500 operations (plugging in/ unplugging)
Operating temperature	-40° - +70°C
Terminals	T568A T568B
Conductors permitted	UTP cable AWG24 -AWG22
Impact tool	Not required

Performance

Frequency (MHz)	1	4	8	10	16	20	25	31.25	62.5	100
Insertion Loss (dB) Max *	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4
Return Loss (dB) Min*	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	24.1	20.0
NEXT (dB) Min *	65.0	65.0	64.9	63.0	58.9	57.0	55.0	53.1	47.1	43.0
FEXT (dB) Min *	65.0	63.1	57.0	55.1	49.1	47.1	45.2	39.2	35.1	

* Min and Max values are in according to requirements of TIA/EIA 568-B.2

Standard

TIA/EIA 568-B.2
EN 50173
ISO/IEC 11801
NCF 20 730

Applications

Gigabit Ethernet (1000 Base ñTX), 10 e 100 Base ñ TX, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN.

Technical information

C9881U/5E : PVC Cable for data/voice transmission Cat. 5E - UTP

Item	Description
C9881U/5E	Unshielded PVC Cable category 5 Enhanced - UTP

Colour code
Pair 1. White – Blue/Blue
Pair 2. White – Orange/Orange
Pair 3. White – Green /Green
Pair 4. White – Brown/Brown



Construction and Dimensions	
• Construction	Unshielded 4 twisted pairs
• Conductor	Solid bare copper
• Conductor diameter (mm)	AWG24 (0.51)
• Conductor insulation material	Polyethylene (PE)
• Diameter over insulation (mm)	0.90 ± 0.05
• Jacket material	PVC (Flame retardant)
• Outer diameter (mm)	5.0 ± 0.3

Electrical characteristics (a 20°C)	
• Impedance 1 –100 MHz	100 ± 15 Ohm
• Nominal mutual capacitance at 1 kHz	50 nF/km
• Maximum conductor DCR	94 Ohm/km
• NVP- Nominal Velocity of Propagation (%)	70
• SKEW (100MHz)	≤ 15 ns/100m
General characteristics	
• Weight (approx)	28 kg/km
• Temperature range - operation	- 20°C - +60°C
• Temperature range - installation	+0°C - +50°C
• Minimum bending radius - operation	20 mm
• Minimum bending radius - installation	40 mm
• Flame retardancy	300 kJ/m
• Maximum pulling tension	80 N
• Maximum operating voltage	48 V rms
• Maximum continuous current per conductor (25° C)	1.4 A

Frequency (MHz)		1	4	10	16	20	31.25	62.5	100
Attenuation (dB/100m)	Max	4.0	4.0	6.3	8.0	9.0	11.4	16.5	21.3
	Typical*	1.9	3.9	6.2	7.9	8.9	11.2	16.0	19.8
NEXT (dB)	Min.	60.0	56.3	50.3	47.3	45.8	42.9	38.4	35.3
	Typical*	73	64	58	55	54	51	47	44
PS-NEXT (dB)	Min.	57.0	53.3	47.3	44.3	42.8	39.9	35.4	32.3
	Typical*	71	62	56	53	52	49	45	42
PS-ELFEXT (dB)	Min.	60.8	48.7	40.8	36.7	34.7	30.9	24.8	20.8
	Typical*	71	59	51	46	43	39	33	28
ACR (dB/100m)	Min.	56	52	44	39	37	31	22	14
	Typical*	71	61	52	48	45	40	31	24
PS-ACR (dB/100m)	Min.	53	49	41	36	34	28	19	11
	Typical*	69	59	50	46	43	38	29	22
RL (dB)	Min.	20.0	23.0	25.0	25.0	25.0	23.6	21.5	20.1
	Typical*	31	33	42	41	41	36	34	32

* Typical values aren't guarantee. Min and Max values are guarantee in according to cable requirements of ISO/IEC 11801 category 5 enhanced

Standards
TIA/EIA 568-B.2
ISO/IEC 11801
EN 50173
IEC 60332-1-1
Jacket colour
Grey RAL7035
Packaging
Carton box. Delivery length 305m
Marking
BTNET-BTICINO UTP CAT5E 4PR AWG24 ISO/IEC11801 EN50173 EC VERIFIED 100 OHM

C9881U/6 : PVC Cable for data/voice transmission Cat. 6 - UTP

Item	Description
C9881U/6	Unshielded PVC Cable with cross separator category 6 - UTP non bonded



Colour code
Pair 1. White – Blue/Blue
Pair 2. White – Orange/Orange
Pair 3. White – Green /Green
Pair 4. White – Brown/Brown

Construction and Dimensions	
• Construction	Unshielded 4 twisted pairs
• Conductor	Solid bare copper
• Conductor diameter (mm)	AWG23 (0.57 mm)
• Conductor insulation material	Polyolefine
• Diameter over insulation (mm)	1.01
• Jacket material	PVC
• Outer diameter (mm)	6.20

Electrical characteristics (a 20°C)	
• Impedance 1 – 100 MHz	100 ± 15 Ohm
• Impedance 100 – 250 MHz	100 ± 22 Ohm
• Nominal mutual capacitance at 1 kHz	50 nF/km
• Maximum conductor DCR	70 Ohm/km
• NVP- Nominal Velocity of Propagation (%)	70
• SKEW (100MHz)	≤ 15 ns/100m
General characteristics	
• Weight (approx)	43.9 kg/km
• Temperature range - operation	- 20°C - +60°C
• Temperature range - installation	+0°C - +50°C
• Minimum bending radius - operation	25 mm
• Minimum bending radius – installation	50 mm
• Flame retardancy	490 kJ/m
• Maximum pulling tension	80 N
• Maximum operating voltage	48 V rms

Frequency (MHz)	1	4	10	16	20	31.25	62.5	100	200	250
Attenuation (db/100m)	Max	4.0	6.0	7.6	8.5	10.8	15.5	19.9	29.2	33
	Valore Tipico*	1.7	3.5	5.6	7.1	8.0	10.1	14.4	18.6	30.7
NEXT (dB)	Min.	66	60	57	56	53	48	45	41	39
	Valore Tipico*	76	73	66	64	63	56	55	52	48
PS-NEXT (dB)	Min.	63	57	54	53	50	45	42	38	36
	Valore Tipico*	74	71	64	62	61	54	53	50	46
PS-ELFEXT (dB)	Min.	53	45	41	39	35	29	25	19	17
	Valore Tipico*	70	64	57	51	49	45	39	35	29
ACR (dB/100m)	Min.	62.0	54.0	49.4	47.5	42.2	32.5	25.1	11.8	6.0
	Valore Tipico*	74	70	60	57	55	46	41	33	21
PS-ACR (dB/100m)	Min.	59.0	51.0	46.6	44.5	39.2	29.5	22.1	8.8	3.0
	Valore Tipico*	72	68	58	55	53	44	39	31	19
RL (dB)	Min.	23.0	25.0	25.0	25.0	23.6	21.5	20.1	18.0	17.3
	Valore Tipico*	33	36	44	42	40	38	36	31	24

* Typical values aren't guarantee. Min and Max values are guarantee in according to cable requirements of ISO/IEC 11801

Standards
TIA/EIA 568-B.2
ISO/IEC 11801
EN 50173
IEC 60332-1-1
Jacket colour
Blue RAL5015
Packaging
305 m reels
Marking
BTNET-BTICINO UTP CAT6 4PR AWG23 PVC ISO/IEC11801 EN50173 EC VERIFIED 100 OHM



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