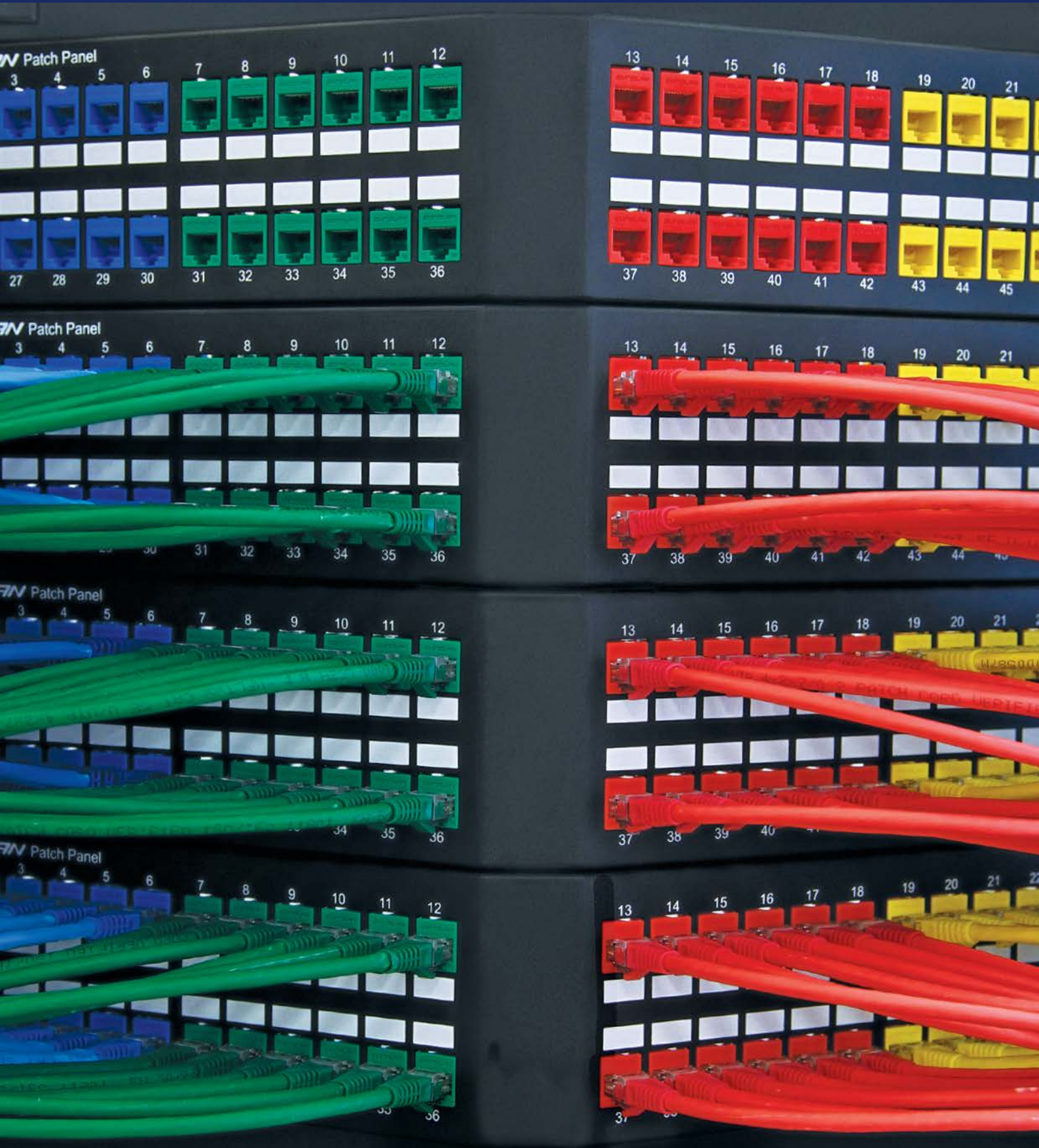




CATEGORY 6A | CATEGORY 6 | CATEGORY 5E | 110 | CATEGORY 3 | MODULAR PANELS | ASSEMBLIES | MULTI-PAIR CABLES | TOOLS



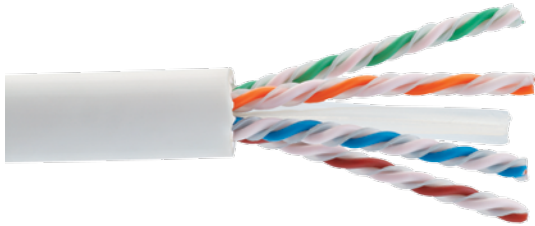
COPPER SOLUTIONS

COPPER WIRE-BASED ULTRA-HIGHSPEED DATA
COMMUNICATIONS SOLUTION

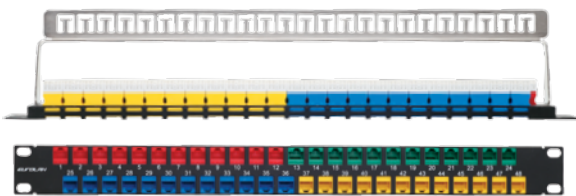
EUROLAN CAT 6A/UTP

solution for data communications based on unshielded copper cables. Supports 10BASE-T, 100BASE-T, 1000BASE-T, 10GBASE-T Ethernet.

- Complies with ISO/IEC 11801 (with Amendments 1 and 2) and TIA-568-C.2
- Cables and cords meet P3.8.1.2.1 fire safety grade
- No grounding required
- Certified by independent laboratories
- 25 year warranty for certified systems



[1] pp. 3–5



[2] pp. 33–38



[3] p. 6



[4] p. 7



[5] pp. 39–40

CATEGORY 6A UNSHIELDED CABLES

- Cable sheath designed to inhibit inter-cable crosstalk
- Cross-shaped dielectric separator
- LSZH grade sheathing
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements

PANELS

- straight and angular modular panels
- 48 port 1U high-density panels
- Uses standard Cat 6 Keystone UTP modules_A
- Rear-side cable organizer

MODULES

- Compatible with Q-Tool for quick and reliable installation
- Markings for T568A and T568B wiring schemes
- Rear-side type 110 punchdown termination block
- 6 colors
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements

CORDS

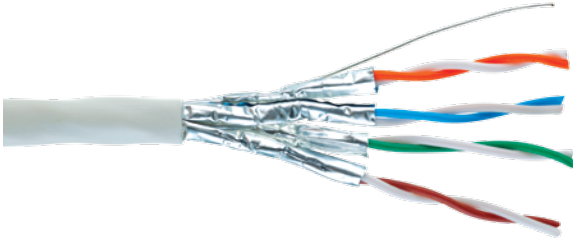
- S/FTP design
- 26 AWG stranded conductors to maximize cord flexibility
- LSZH grade sheathing
- Two extra inserts in RJ45 plugs for improved NEXT performance
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements

ASSEMBLIES

- Design 6_A U/UTP
- Keystone modules, RJ45 plugs, cassettes
- Quick and easy installation requiring less effort
- Factory-built and 100% tested

EUROLAN CAT 6A/FTP solution for ultra-high-speed data communications based on shielded copper cables. Supports 10BASE-T, 100BASE-T, 1000BASE-T, 10GBASE-T Ethernet.

- Complies with ISO/IEC 11801 (with Amendments 1 and 2) and TIA-568-C.2
- Immune to electromagnetic and RF interference
- No ANEXT/AFEXT performance testing necessary
- Certified by independent laboratories
- 25 year warranty for certified systems



[1] pp. 3–5



[2] pp. 33–38



[3] p. 6



[4] p. 7



[5] pp. 39–40

U/FTP, F/FTP, S/FTP CAT 6A, 7, 7A CABLES

- Type I and II cable shielding ensuring reliable protection against inter-cable crosstalk and HF interference
- LSZH grade sheathing
- Small-diameter cables (6.9 mm in the case of U/FTP) for improved utilization of tray capacity
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements

PANELS

- straight and angular modular panels
- 48 port 1U high-density panels
- Use standard Cat 6 FTP modules_A
- Rear-side cable organizer

MODULES

- Compatible with Q-Tool for quick and reliable installation
- Markings for T568A and T568B wiring schemes
- Rear-side type 110 punchdown termination block
- Complete wrap-around shielding
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements

CORDS

- S/FTP design
- 26 AWG stranded conductors to maximize cord flexibility
- LSZH grade sheathing
- Two extra inserts in RJ45 plugs for improved NEXT performance
- Factory-built and 100% tested

ASSEMBLIES

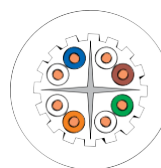
- Cat 6A U/FTP, F/FTP, S/FTP
- Keystone modules, RJ45 plugs, cassettes
- Quick and easy installation requiring less effort
- Factory-built and 100% tested

UNSHIELDED

U/UTP

Category 6_A

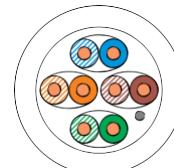
LSZH



U/FTP

Category 6_A

LSZH



APPLICATION

SCS horizontal subsystem

*

*

SCS backbone subsystems

*

*

Datacenters and storage systems

*

*

10Base-T, 100Base-T, 1000Base-T

*

*

10GBase-T

*

*

PoE, PoE+ (802.3 af, 802.3 at)

*

*

Indoor laying

*

*

SPECIFICATIONS

Number of pairs

4

4

Conductor diameter (mm)

0.60

0.56

Conductor insulation material

PE foam

PE foam

Conductor diameter w/insulation (mm)

1.10

1.35

Flame-retardant (Grade C-HF) design

*

*

P3.8.1.2.1 Inner diameter (mm)

8.8

6.9

Operating temperature range (°C)

-20...+60

-20...+60

Installation temperature range (°C)

-0...+50

-0...+50

Cross-shaped dielectric separator

*

Conductor pair shield material

Metal-coated film

Common shield material

Coupling attenuation

Type III

Type II

Transfer impedance

Grade 2

NVP, %

65

79

Fire safety certificate

*

*

GOST R certificate

*

*

ISO/IEC 11801

*

*

EIA/TIA-568-B.2-10

*

*

Sheath color

5 colors¹

White

Net weight (kg/km)

80

45

Packaging

500 m spool

500 m spool

Part No.

19C-UA-23YY-R500

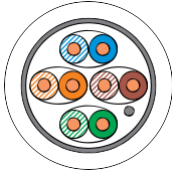
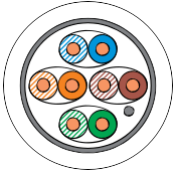
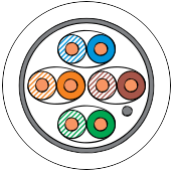
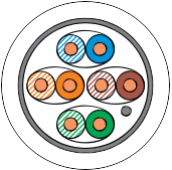
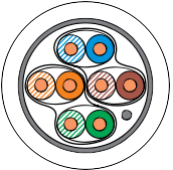
19C-TA-23WT-R500

¹ □ White (WT), ■ yellow (YL), ■ red (RD), ■ blue (BU), ■ green (GR).

COPPER SOLUTIONS> CAT 6A, 7, 7A CABLES

Cu

SHIELDED

F/FTP	S/FTP	S/FTP	S/FTP	S/FTP
Category 6A	Category 6A	Category 7	Category 7A	Category 7A 2000
LSZH	LSZH	LSZH	LSZH	LSZH
				
*	*	*	*	*
*	*	*	*	*
*	*	*	*	*
*	*	*	*	*
*	*	*	*	*
*	*	*	*	*
*	*	*	*	*
4	4	4	4	4
0.56	0.56	0.56	0.58	0.64
PE foam	PE foam	PE foam	PE foam	PE foam
1.35	1.35	1.38	1.40	1.55
*	*	*	*	*
7.1	7.2	7.3	7.8	8.9
-20...+60	-20...+60	-20...+60	-20...+60	-20...+60
-0...+50	-0...+50	-0...+50	-0...+50	-0...+50
Metal-coated film	Metal-coated film	Metal-coated film	Metal-coated film	Double metal-coated film
Metal-coated film	Braiding	Braiding	Braiding	Braiding
Type II	Type II	Type II	Type I	Type I
Grade 2	Grade 2	Grade 2	Grade 1	Grade 1
79	79	79	79	80
*	*	*	*	*
*	*	*	*	*
*	*	*	*	*
*	*	*	*	*
White	White	White	White	White
47	52	54	65	86
500 m spool	500 m spool	500 m spool	500 m spool	500 m spool

19C-ZA-23WT-R500

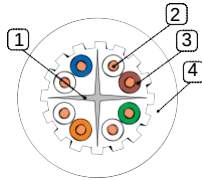
19C-SA-23WT-R500

19C-S7-23WT-R500

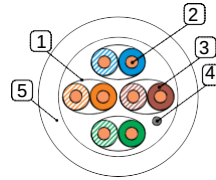
19C-SF-23WT-R500

19C-S8-23WT-R500

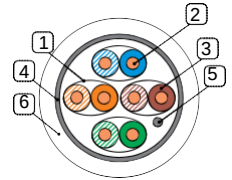
- 1 SEPARATOR
- 2 CONDUCTOR
- 3 INSULATION
- 4 SHEATH



- 1 SHIELD
- 2 CONDUCTOR
- 3 INSULATION
- 4 DRAIN CONDUCTOR
- 5 SHEATH



- 1 SHIELD
- 2 CONDUCTOR
- 3 INSULATION
- 4 COMMON SHIELD
- 5 DRAIN CONDUCTOR
- 6 SHEATH

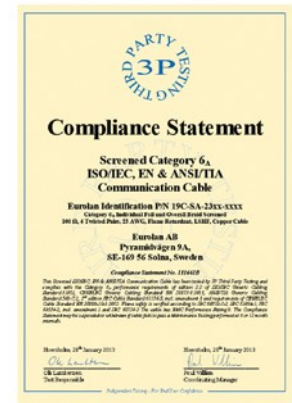


[1] UNSHIELDED CABLES

- U/UTP design
- Category 6A
- Supports 10GBASE-T
- Cable sheath designed to inhibit inter-cable crosstalk
- No grounding required
- Cross-shaped dielectric separator
- LSZH grade sheathing

[2, 3] SHIELDED CABLES

- U/FTP, F/FTP, S/FTP design
- Category 6A, 7, 7A
- Supports 10GBASE-T
- Type I and II cable shielding ensuring protection against inter-cable crosstalk and HF interference
- Drain conductor – 0.4 mm, solid tin-plated copper
- LSZH grade sheathing
- Sheath color: white



3P CERTIFICATION

UNSHIELDED CABLES

Fig.	Part No.	Description						Color
[1]	19C-UA-23WT-R500	Cat 6A U/UTP cable	4 pairs	spool	500 m	LSZH		white (WT)
	19C-UA-23YL-R500	Cat 6A U/UTP cable	4 pairs	spool	500 m	LSZH		yellow (YL)
	19C-UA-23RD-R500	Cat 6A U/UTP cable	4 pairs	spool	500 m	LSZH		red (RD)
	19C-UA-23BU-R500	Cat 6A U/UTP cable	4 pairs	spool	500 m	LSZH		blue (BU)
	19C-UA-23GR-R500	Cat 6A U/UTP cable	4 pairs	spool	500 m	LSZH		green (GR)
	19C-UA-23OR-R500	Cat 6A U/UTP cable	4 pairs	spool	500 m	LSZH		orange (OR)

SHIELDED CABLES

Fig.	Part No.	Description						Color
[2]	19C-TA-23WT-R500	Cat 6A U/FTP cable	4 pairs	spool	500 m	LSZH		white (WT)
	19C-SA-23WT-R500	Cat 6A F/FTP cable	4 pairs	spool	500 m	LSZH		white (WT)
[3]	19C-SA-23WT-R500	Cat 6A S/FTP cable	4 pairs	spool	500 m	LSZH		white (WT)
	19C-S7-23WT-R500	Cat 7 S/FTP cable	4 pairs	spool	500 m	LSZH		white (WT)
	19C-SF-23WT-R500	Cat 7A S/FTP cable	4 pairs	spool	500 m	LSZH		white (WT)
	19C-S8-23WT-R500	Cat 7A 2000 S/FTP cable	4 pairs	spool	500 m	LSZH		white (WT)



[1]



[2]

[1] UNSHIELDED CAT 6A KEYSTONE MODULES

- Quick and reliable installation using Q-Tool
- Markings for T568A and T568B wiring schemes
- Rear-side type 110 punchdown termination block
- 30.8 mm deep
- 6 colors
- Can be terminated using 10T-P0-01 or similar IDC tool
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements



Q-TOOL (10F-01-01)

ENABLES QUICK INSTALLATION OF KEYSTONE MODULES.
MOUNTS AND CUTS 4 PAIRS AT A TIME.

[2] SHIELDED KEYSTONE CAT 6A MODULES

- Quick and reliable installation using Q-Tool
- Markings for T568A and T568B wiring schemes
- Rear-side type 110 punchdown termination block
- Complete wrap-around shielding
- 37.0 mm deep
- Designed for connection of F/UTP, F/FTP, SF/UTP, SF/FTP, U/FTP, S/FTP cables
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements



SHIELDED AND UNSHIELDED
CAT 6A KEYSTONE MODULES FIT INTO MOSAIC FRAMES
WITH SERIES 45 ADAPTORS:
16B-45-02WT, 16B-45-01WT, 16A-00-08WT

CATEGORY 6A MODULES

Fig.	Part No.	Description		Color
[1]	16B-UA-03WT	Cat 6A Keystone UTP module	Q-Tool	□ white (WT)
	16B-UA-03YL	Cat 6A Keystone UTP module	Q-Tool	■ yellow (YL)
	16B-UA-03RD	Cat 6A Keystone UTP module	Q-Tool	■ red (RD)
	16B-UA-03BU	Cat 6A Keystone UTP module	Q-Tool	■ blue (BU)
	16B-UA-03GR	Cat 6A Keystone UTP module	Q-Tool	■ green (GR)
	16B-UA-03BL	Cat 6A Keystone UTP module	Q-Tool	■ black (BL)
[2]	16B-EA-07SL	Cat 6A Keystone FTP module	Q-Tool	■ silver (SL)

Shielded and unshielded Keystone

Cat 6A modules can be mounted in straight and angular modular patch panels.





[1]

CAT 6_A SHIELDED CORDS

Both shielded and unshielded Cat 6_A systems use unified cords with S/FTP cable designs and eight-contact 8P8C plugs per ANSI/TIA/EIA-968-A, IEC 60603-7, with two inserts to improve electrical performance by reducing unstranding of twisted pairs.

- S/FTP Cat 6_A design
- Stranded conductor, 7 × 0.16 mm
- 5.8 mm outer cable diameter
- LSZH grade sheathing
- Narrow form-factor plug for use with high-density panels and switches
- Flexible termination point for long operating life
- Compatible with T568A and T568B wiring schemes
- Support PoE, PoE+ (802.3af, 802.3at)
- Cat 6_A shielded RJ45 plugs
- Two extra inserts in RJ45 plugs for improved NEXT performance
- 1.27 µm (0.05 mil) gold plating on RJ45 plug contacts
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements



RJ45 PLUG WITH 2 EXTRA INSERTS



CABLE DESIGN: STRANDED S/FTP
CAT 6_A, HIGHLY FLEXIBLE, SMALL-FOOTPRINT CORDS THANKS TO
26 AWG CABLES WITH SMALL OUTER DIAMETER

CAT 6_A SHIELDED CORDS

Fig.	Part No.	Description	Length (m)	Sheath
[1]	21D-SA-0Eyy	Eurolan Cat 6 _A S/FTP patch cord	0.5	LSZH
[1]	21D-SA-0Eyy	Eurolan Cat 6 _A S/FTP patch cord	1.0	LSZH
[1]	21D-SA-1Eyy	Eurolan Cat 6 _A S/FTP patch cord	1.5	LSZH
[1]	21D-SA-02yy	Eurolan Cat 6 _A S/FTP patch cord	2.0	LSZH
[1]	21D-SA-03yy	Eurolan Cat 6 _A S/FTP patch cord	3.0	LSZH
[1]	21D-SA-05yy	Eurolan Cat 6 _A S/FTP patch cord	5.0	LSZH
[1]	21D-SA-07yy	Eurolan Cat 6 _A S/FTP patch cord	7.0	LSZH
[1]	21D-SA-10yy	Eurolan Cat 6 _A S/FTP patch cord	10.0	LSZH

yy is color: ☐ white (WT), ☐ yellow (YL), ☐ red (RD), ☐ blue (BU), ☐ green (GR), ☐ black (BL).
Cords of other lengths may be ordered separately.



CAT 6A SCREENED CONSOLIDATION POINT CORDS

- Interconnect consolidation points with sockets in an open office
- U/FTP, F/FTP, S/FTP cables with solid conductors
- Single-ended RJ45 plug
- Interconnect consolidation points with sockets in an open office
- LSZH grade sheathing
- Flexible termination point for long operating life
- T568B wiring scheme
- Support PoE, PoE+ (802.3af, B02.3at)
- 1.27 µm (0.05 mil) gold plating on RJ45 plug contacts
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements



27P-00-12BL CONSOLIDATION POINT

CAT 6A CONSOLIDATION POINT CORDS

Fig.	Part No.	Description		
[1]	21T-TA-xxWT	Cat 6A U/FTP consolidation point cord	single-ended	LSZH
[2]	21T-ZA-xxWT	Cat 6A F/FTP consolidation point cord	single-ended	LSZH
	21T-SA-xxWT	Cat 6A S/FTP consolidation point cord	single-ended	LSZH

Where xx is cord length in meters.

EUROLAN CAT 6/UTP — solution for high-speed data communications based on unshielded copper cables. Supports 10BASE-T, 100BASE-T, 1000BASE-T Ethernet.

- Complies with ISO/IEC 11801 (with Amendments 1 and 2) and TIA-568-C.2
- Cables and cords with P3.8.1.2.1 fire safety rating for LSZH sheath
- No grounding required
- Certified by independent laboratories
- 25 year warranty for certified systems



[1] pp. 11–13

UNSHIELDED CABLES

- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements
- Sheath made of PVC, low-smoke halogen-free LSZH compound or polyethylene



[2] pp. 15, 33–38

PANELS

- 24-port and 48-port integrated panels
- Straight and angular modular panels
- 48 port 1U high-density panels
- Rear-side cable organizer
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements



[3] p. 16

MODULES

- Keystone and Mosaic 22.5 × 45.0 mm form factors
- Markings for T568A and T568B wiring schemes
- Rear-side type 110 punchdown termination block
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements



[4] p. 18

CORDS

- U/UTP design
- LSZH grade sheathing
- Cat 6 unshielded RJ45 plugs
- 6 colors
- Factory-built and 100% tested

ASSEMBLIES

- Cat 6 U/UTP design
- Keystone modules, RJ45 plugs, cassettes
- Quick and easy installation requiring less effort
- Factory-built and 100% tested



[5] pp. 39–40

EUROLAN CAT 6/FTP — solution for high-speed data communications based on shielded copper cables. Supports 10BASE-T, 100BASE-T, 1000BASE-T Ethernet.

- Complies with ISO/IEC 11801 (with Amendments 1 and 2) and TIA-568-C.2
- Immune to electromagnetic and RF interference
- Certified by independent laboratories
- 25 year warranty for certified systems



[1] pp. 11, 12, 14

SHIELDED CABLES

- Type II cable shield
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements
- Sheath made of low-smoke halogen-free compound and polyethylene



[2] pp. 15, 33-38

PANELS

- 24-port integrated panels
- Straight and angular modular panels
- 48 port 1U high-density panels
- Rear-side cable organizer
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements



[3] p. 17

MODULES

- Quick and reliable installation using Q-Tool
- Markings for T568A and T568B wiring schemes
- Rear-side type 110 punchdown termination block
- Complete wrap-around shielding
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements



[4] p. 19

CORDS

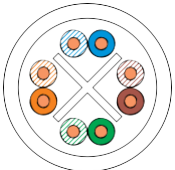
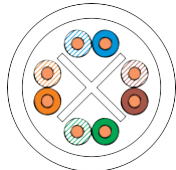
- F/UTP design
- LSZH grade sheathing
- Cat 6 RJ45 shielded FTP plugs
- Factory-built and 100% tested



[5] pp. 39-40

ASSEMBLIES

- Cat 6 F/UTP design
- Keystone modules, RJ45 plugs, cassettes
- Quick and easy installation requiring less effort
- Factory-built and 100% tested

UNSHIELDED	
U/UTP	U/UTP
Category 6	Category 6
PVC	LSZH
	

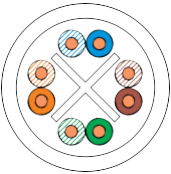
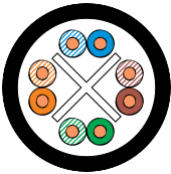
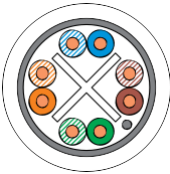
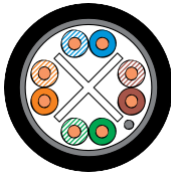
APPLICATION

SCS horizontal subsystem	*	*
SCS backbone subsystems	*	*
10Base-T, 100Base-T	*	*
1000Base-T	*	*
PoE, PoE+ (802.3af, 802.3at)	*	*
Indoor laying	*	*
Outdoor laying		

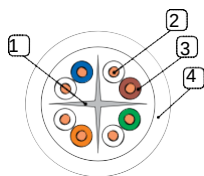
SPECIFICATIONS

Number of pairs	4	4
Conductor diameter (mm)	0.57	0.57
Conductor insulation material	PE	PE
Conductor diameter w/insulation (mm)	1.02	1.02
Outer diameter (mm)	6.3	6.3
Flame-retardant (Grade C) design	*	
Flame-retardant (Grade C-HF P3.8.1.2.1) design		*
Operating temperature range (°C)	-20...+60	-20...+60
Installation temperature range (°C)	-0...+50	-0...+50
Cross-shaped symmetrical dielectric separator	*	*
Common shield material		
Coupling attenuation	Type III	Type III
Transfer impedance		
NVP, %	69	69
Fire safety certificate	*	*
GOST R certificate	*	*
ISO/IEC 11801	*	*
EIA/TIA-568-B.2-10	*	*
Sheath color	White	5 colors ¹
Net weight (kg/km)	39	40
Packaging	Spool in box 305 m	Spool in box 305 m
Part No.	19C-U6-02WT-B305	19C-U6-22yy-B305

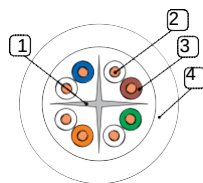
¹  white (WT),  yellow (YL),  red (RD),  blue (BU),  green (GR).

		SHIELDED	
U/UTP	U/UTP	F/UTP	F/UTP
Category 6	Category 6	Category 6	Category 6
Slim line	Outdoor laying		Outdoor laying
LSZH	PE	LSZH	PE
			
*		*	
*	*	*	*
*	*	*	*
*	*	*	*
*	*	*	*
*		*	
	*		*
4	4	4	4
0.54	0.57	0.57	0.57
PE	PE	PE	PE
0.95	1.02	1.09	1.09
5.3	6.7	7.4	7.4
	*		*
*		*	
-20...+60	-40...+60	-20...+60	-40...+60
-0...+50	-20...+50	-0...+50	-20...+50
*	*	*	*
		Metal-coated film	Metal-coated film
Type III	Type III	Type II	Type II
		Grade 2	Grade 2
67	69	69	69
*	*	*	*
*	*	*	*
*	*	*	*
*	*	*	*
White	Black	White	Black
36	39	42	42
Spool in box 305 m	500 m spool	Spool in box 305 m	Spool in box 305 m
19C-U6-25WT-B305	19C-U6-07BL-R500	19C-F6-22WT-B305	19C-F6-07BL-B305

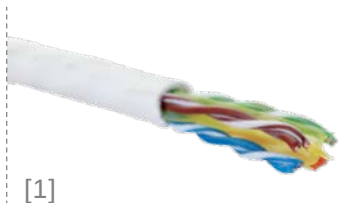
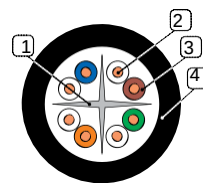
- 1 SEPARATOR
- 2 CONDUCTOR
- 3 INSULATION
- 4 SHEATH



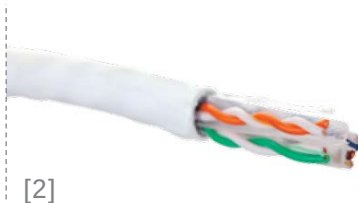
- 1 SEPARATOR
- 2 CONDUCTOR
- 3 INSULATION
- 4 SHEATH



- 1 SEPARATOR
- 2 CONDUCTOR
- 3 INSULATION
- 4 SHEATH



[1]



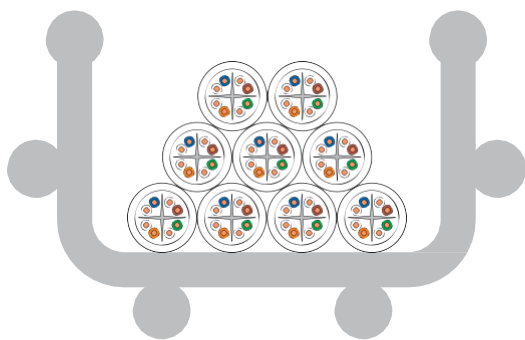
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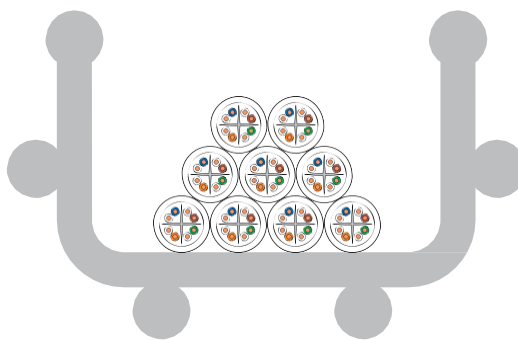
[3]

CAT 6 UNSHIELDED CABLES

- Cat 6 U/UTP cable
- Sheath made of PVC, low-smoke halogen-free compound or polyethylene
- Support 1000BASE-T
- Cross-shaped dielectric separator
- No grounding required
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements
- Sheath colors:
 - LSZH — white, yellow, red, blue, green
 - PVC — white
 - PE for outdoor laying — black



STANDARD CAT 6 CABLE



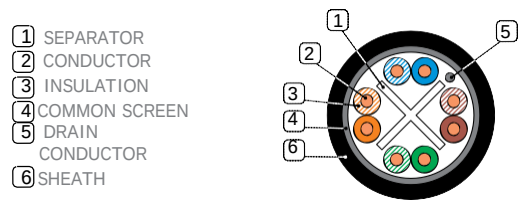
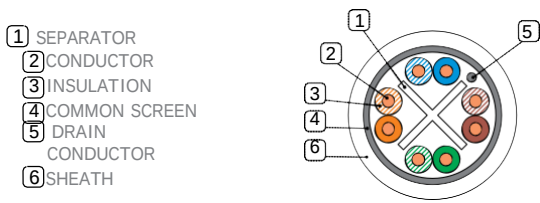
CAT 6 SLIM LINE CABLE

5.3 MM OUTER DIAMETER REDUCES FOOTPRINT SAVING 30% OF TRAY CAPACITY. FULLY COMPLIANT WITH CAT 6 REQUIREMENTS.

UNSHIELDED CAT 6 CABLES

Fig.	Part No.	Description						Color
[1]	19C-U6-25WT-B305	Cat 6 U/UTP Slim Line cable	4 pairs	box	305 m	LSZH	☐	white
	19C-U6-02WT-B305	Cat 6 U/UTP cable	4 pairs	box	305 m	PVC	☐	white
[2]	19C-U6-22WT-B305	Cat 6 U/UTP cable	4 pairs	box	305 m	LSZH	☐	white
	19C-U6-22YL-B305	Cat 6 U/UTP cable	4 pairs	box	305 m	LSZH	☐	yellow
	19C-U6-22RD-B305	Cat 6 U/UTP cable	4 pairs	box	305 m	LSZH	☐	red
	19C-U6-22BU-B305	Cat 6 U/UTP cable	4 pairs	box	305 m	LSZH	☐	blue
	19C-U6-22GR-B305	Cat 6 U/UTP cable	4 pairs	box	305 m	LSZH	☐	green
	19C-U6-07BL-R500	Cat 6 U/UTP cable for outdoor laying	4 pairs	spool	500 m	PE	☐	black

For information on multi-pair Cat 6 cables, see the section titled "Stranded Cables".



CAT 6 SHIELDED CABLES

- Cat 6 F/UTP cable
- Support 1000BASE-T
- Cross-shaped dielectric separator
- Type II cable shield
- Drain conductor – 0.4 mm, solid tin-plated copper
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements
- Sheath colors:
 - LSZH — white
 - PE for outdoor laying — black

SHIELDED CAT 6 CABLES

Fig.	Part No.	Description	Color			
[1]	19C-F6-22WT-B305	Cat 6 F/UTP cable	4 pairs	305 m in box	LSZH	□ white
[2]	19C-F6-07BL-B305	Cat 6 F/UTP cable for outdoor laying	4 pairs	305 m in box	PE	■ black



[1]



[2]



[3]

Cat 6 integrated patch panels are based on circuit boards carrying eight-position modular connectors with Type 110 rear-side terminals

[1, 2] CAT 6 UNSHIELDED INTEGRATED PANELS

- 1U with 24 ports, 2U with 48 ports
- Terminals marked for T568A and T568B wiring schemes
- Compatible conductor diameter range: 0.404 to 0.643 mm (26 AWG – 22 AWG)
- Front and rear port markings
- Front panel color: RAL 9005 black
- Rear-side cable organizer(s) included (1x for every 24 ports)
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements

[3] CAT 6 SHIELDED INTEGRATED PANELS

- 1U with 24 ports
- Terminals marked for T568A and T568B wiring schemes
- Compatible conductor diameter range: 0.404 to 0.643 mm (26 AWG – 22 AWG)
- Front and rear port markings
- Front panel color: RAL 9005 black
- Grounding kit
- Rear-side cable organizer in panel housing
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements

CAT 6 INTEGRATED PANELS

Fig.	Part No.	Description			
[1]	27B-U6-24BL	19" Cat 6 integrated panel	1U	24 ports	UTP
[2]	27B-U6-48BL	19" Cat 6 integrated panel	2U	48 ports	UTP
[3]	27B-F6-24BL	19" Cat 6 integrated panel	1U	24 ports	FTP

In addition to integrated panels, any kinds of shielded and unshielded modular panels with Keystone modules may be used for Cat 6 systems.





[1]



[2]

[1] UNSHIELDED CAT 6 KEYSTONE MODULES

- Quick and reliable installation using Q-Tool
- Markings for T568A and T568B wiring schemes
- Rear-side type 110 punchdown termination block
- 30.0 mm deep
- 6 colors
- Can be terminated using 10T-P0-01 or similar IDC tool
- Terminal contacts protected with plastic cap
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements

[2] UNSHIELDED CAT 6 MODULES (FRENCH STANDARD)

- Mosaic 22.5 × 45.0 mm form factor
- Markings for T568A and T568B wiring schemes
- Rear-side type 110 punchdown termination block
- Socket dust cover
- Cords connected at 45°
- 18.0 × 10.0 mm window for interchangeable marking labels
- Color: RAL 9010 white
- Terminated using 10T-P0-01 or similar IDC tool
- Terminal contacts protected with plastic cap
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements



ANGULAR DESIGN ENABLING CORD CONNECTION WITH NARROWER CABLE BENDING RADIUS

UNSHIELDED CAT 6 MODULES

Fig.	Part No.	Description	Color
[1]	16B-U6-03WT	Cat 6 Keystone UTP module	☐ white
[1]	16B-U6-03YL	Cat 6 Keystone UTP module	☒ yellow
[1]	16B-U6-03RD	Cat 6A Keystone UTP module	☒ red
[1]	16B-U6-03BU	Cat 6A Keystone UTP module	☒ blue
[1]	16B-U6-03GR	Cat 6A Keystone UTP module	☒ green
[1]	16B-U6-03BL	Cat 6A Keystone UTP module	☒ black
[2]	16A-U6-03WT	Cat 6A UTP module (French standard)	☐ white



[1]

SHIELDED KEYSTONE CAT 6A MODULES

- Quick and reliable installation using Q-Tool
- Markings for T568A and T568B wiring schemes
- Rear-side type 110 punchdown termination block
- Complete wrap-around shielding
- 37.0 mm deep
- Designed for connection of F/UTP, F/FTP, SF/UTP, SF/FTP, U/FTP, S/FTP cables
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements



Q-TOOL (10F-01-01)
ENABLES QUICK INSTALLATION OF
KEYSTONE MODULES, MOUNTS AND
CUTS 4 PAIRS AT A TIME.



SHIELDED AND UNSHIELDED CATEGORY 6 KEYSTONE
MODULES FIT INTO MOSAIC FRAMES WITH SERIES 45
ADAPTORS:
16B-45-02WT, 16B-45-01WT, 16A-00-08WT

SHIELDED CAT 6 MODULES

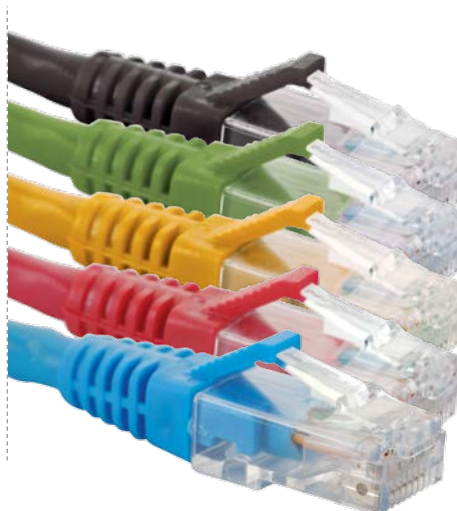
Fig.	Part No.	Description	Color
[1]	16B-F6-07SL	Cat 6 Keystone FTP module	☐ silver

Shielded and unshielded Category 6 Keystone modules fit both straight and angular modular patch panels.





[1]



UNSHIELDED CATEGORY 6 CORDS

Unshielded Cat 6 systems use cords with eight-contact 8P8C plugs per ANSI/TIA/EIA-968-A, IEC 60603-7 complete with an insert to improve electrical performance by reducing unstranding of twisted pairs.

- Cat 6 U/UTP design
- 7 × 0.20 mm stranded wire
- 6.0 mm outer cable diameter
- LSZH grade sheathing
- Narrow form-factor plug for use with high-density panels and switches
- Flexible termination point for long operating life
- Cat 6 unshielded RJ45 plugs
- 6 colors
- Compatible with T568A and T568B wiring schemes
- Support PoE, PoE+ (802.3af, 802.3at)
- 1.27 µm (0.05 mil) gold plating on RJ45 plug contacts
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements

UNSHIELDED CATEGORY 6 CORDS

Fig.	Part No.	Description	Length (m)	Sheath
[1]	21D-U6-0Byy	Category 6 U/UTP patch cord	0.2	LSZH
[1]	21D-U6-0Cyy	Category 6 U/UTP patch cord	0.3	LSZH
[1]	21D-U6-0Eyy	Category 6 U/UTP patch cord	0.5	LSZH
[1]	21D-U6-01yy	Category 6 U/UTP patch cord	1.0	LSZH
[1]	21D-U6-1Eyy	Category 6 U/UTP patch cord	1.5	LSZH
[1]	21D-U6-02yy	Category 6 U/UTP patch cord	2.0	LSZH
[1]	21D-U6-03yy	Category 6 U/UTP patch cord	3.0	LSZH
[1]	21D-U6-05yy	Category 6 U/UTP patch cord	5.0	LSZH
[1]	21D-U6-07yy	Category 6 U/UTP patch cord	7.0	LSZH
[1]	21D-U6-10yy	Category 6 U/UTP patch cord	10.0	LSZH
[1]	21D-U6-15yy	Category 6 U/UTP patch cord	15.0	LSZH
[1]	21D-U6-20yy	Category 6 U/UTP patch cord	20.0	LSZH

yy is color: ☐ white (WT), ☐ yellow (YL), ☐ red (RD), ☐ blue (BU), ☐ green (GR), ☐ black (BL).

Cords of other lengths may be ordered separately.



SHIELDED CATEGORY 6 CORDS

Shielded Cat 6 systems use cords with eight-contact 8P8C plugs per ANSI/TIA/EIA-968-A, IEC 60603-7 complete with an insert to improve electrical performance by reducing unstranding of twisted pairs.

- Cat 6 F/UTP design
- 7 × 0.16 mm stranded wire
- 6.0 mm outer cable diameter
- LSZH grade sheathing
- Narrow form-factor plug for use with high-density panels and switches
- Flexible termination point for long operating life
- Cat 6 shielded RJ45 plugs
- Compatible with T568A and T568B wiring schemes
- Support PoE, PoE+ (802.3af, 802.3at)
- 1.27 µm (0.05 mil) gold plating on RJ45 plug contacts
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements

SHIELDED CATEGORY 6 CORDS

Fig.	Part No.	Description	Length (m)	Sheath
[1]	21D-F6-0Byy	Category 6 F/UTP patch cord	0.2	LSZH
[1]	21D-F6-0Cyy	Category 6 F/UTP patch cord	0.3	LSZH
[1]	21D-F6-0Eyy	Category 6 F/UTP patch cord	0.5	LSZH
[1]	21D-F6-01yy	Category 6 F/UTP patch cord	1.0	LSZH
[1]	21D-F6-1Eyy	Category 6 F/UTP patch cord	1.5	LSZH
[1]	21D-F6-02yy	Category 6 F/UTP patch cord	2.0	LSZH
[1]	21D-F6-03yy	Category 6 F/UTP patch cord	3.0	LSZH
[1]	21D-F6-05yy	Category 6 F/UTP patch cord	5.0	LSZH
[1]	21D-F6-07yy	Category 6 F/UTP patch cord	7.0	LSZH
[1]	21D-F6-10yy	Category 6 F/UTP patch cord	10.0	LSZH
[1]	21D-F6-15yy	Category 6 F/UTP patch cord	15.0	LSZH
[1]	21D-F6-20yy	Category 6 F/UTP patch cord	20.0	LSZH

yy is color: ☐ white (WT), ☐ yellow (YL), ☐ red (RD), ☐ blue (BU), ☐ green (GR), ☐ black (BL).
Cords of other lengths may be ordered separately.



SHIELDED AND UNSHIELDED CAT 6 CONSOLIDATION POINT CABLES

- Cat 6 U/UTP and F/UTP cables
- Cable with 0.57 mm solid conductors
- Single-ended RJ45 plug
- Outer cable diameter: U/UTP 6.3 mm, F/UTP 7.4 mm
- LSZH grade sheathing
- Flexible termination point for long operating life
- T568B wiring scheme
- Support PoE, PoE+ (802.3af, 802.3at)
- Cat 6 shielded and unshielded plugs
- 1.27 µm (0.05 mil) gold plating on RJ45 plug contacts
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements



27P-00-12BL CONSOLIDATION POINT

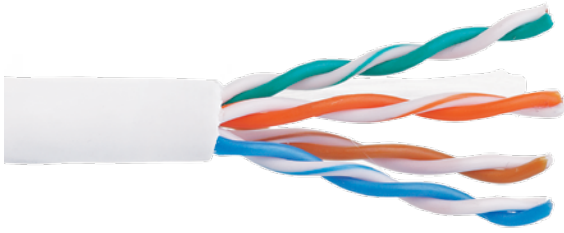
CAT 6 CONSOLIDATION POINT CABLES

Fig.	Part No.	Description		
[1]	21T-U6-xyyy	Cat 6 U/UTP consolidation point cable	single-ended	LSZH
[2]	21T-F6-xxWT	Cat 6 F/UTP consolidation point cable	single-ended	LSZH

xx is cable length (m), yy is color: ☐ white (WT), ☐ yellow (YL), ☐ red (RD), ☐ blue (BU), ☐ green (GR), ☐ black (BL).

EUROLAN CATEGORY 5E/UTP solution for high-speed data communications based on unshielded copper cables. Supports 10BASE-T, 100BASE-T, 1000BASE-T Ethernet.

- Complies with ISO/IEC 11801 (with Amendments 1 and 2) and TIA-568-C.2
- Cables and cords with P3.8.1.2.1 fire safety rating for LSZH sheath
- No grounding required
- Certified by independent laboratories
- 25 year warranty for certified systems



[1] pp. 23–24

CAT 5E UNSHIELDED CABLES

- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements
- Sheath made of PVC, low-smoke halogen-free compound or polyethylene
- 5 colors for LSZH sheath

PANELS

- 24-port and 48-port integrated panels
- Straight and angular modular panels
- 48 port 1U high-density panels
- Rear-side cable organizer
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements



[2] pp. 25, 33–38

MODULES

- Keystone and Mosaic 22.5 x 45.0 mm form factors
- Markings for T568A and T568B wiring schemes
- Rear-side type 110 punchdown termination block
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements



[3] p. 26

CORDS

- U/UTP design
- LSZH grade sheathing
- 6 colors
- Factory-built and 100% tested



[4] p. 28

TYPE 110 CAT 5E CROSS-CONNECT UNITS, PANELS AND CORDS

- Type 110 wallmount cross-connect units and panels
- Wallmount and 19"
- cable organizers 110-110, 110-RJ45 cords



[4] p. 31

EUROLAN CATEGORY 5_E/FTP solution for high-speed data communications based on shielded copper cables. Supports 10BASE-T, 100BASE-T, 1000BASE-T Ethernet.

- Complies with ISO/IEC 11801 (with Amendments 1 and 2) and TIA-568-C.2
- Immune to electromagnetic and RF interference
- Certified by independent laboratories
- 25 year warranty for certified systems



[1] pp. 23–24

SHIELDED CABLES

- Type II cable shield
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements
- LSZH and PE sheath



[2] pp. 25, 33–38

PANELS

- 24-port integrated panels
- straight and angular patch panels
- 48 port 1U high-density panels
- Rear-side cable organizer
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements



[3] p. 27

MODULES

- Keystone FTP modules compatible with Q-Tool
- Markings for T568A and T568B wiring schemes
- Rear-side type 110 punchdown termination block
- Complete wrap-around shielding
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements



[4] p. 29

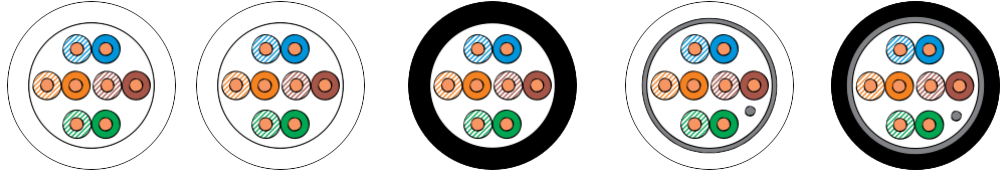
CORDS

- F/UTP design
- LSZH grade sheathing
- RJ45 shielded FTP plugs
- Factory-built and 100% tested

COPPER SOLUTIONS > CAT 5E CABLES

Cu

UNSHIELDED			SHIELDED	
U/UTP Category 5e	U/UTP Category 5e	U/UTP Category 5e	F/UTP Category 5e	F/UTP Category 5e
PVC	LSZH	PE for outdoor laying	LSZH	PE for outdoor laying



APPLICATION

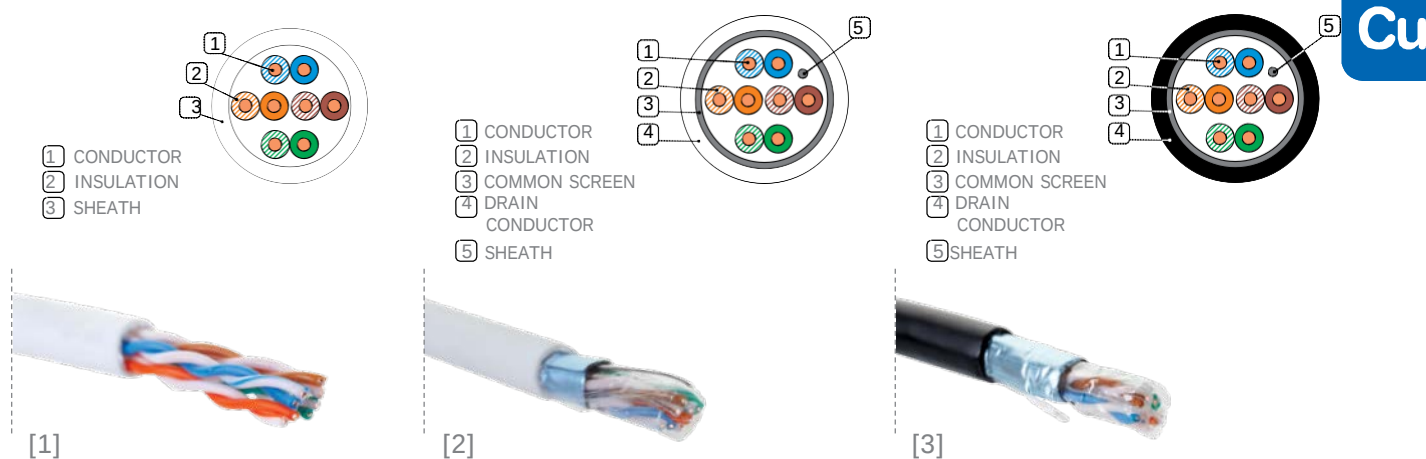
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SCS backbone subsystems	*	*	*	*	*
10Base-T, 100Base-T	*	*	*	*	*
1000Base-T	*	*	*	*	*
PoE, PoE+ (802.3af, 802.3at)	*	*	*	*	*
Indoor laying	*	*		*	
Outdoor laying			*		*

SPECIFICATIONS

Number of pairs	4	4	4	4	4
Conductor diameter (mm)	0.51	0.51	0.51	0.51	0.51
Conductor insulation material	PE	PE	PE	PE	PE
Conductor diameter w/insulation (mm)	0.95	0.95	0.95	1.00	1.00
Flame-retardant (Grade C) design	*		*		*
Flame-retardant (Grade C-HF P3.8.1.2.1) design		*		*	
Outer diameter (mm)	5.1	5.1	5.2	6.2	6.2
Operating temperature range (°C)	-20...+60	-20...+60	-40...+60	-20...+60	-40...+60
Installation temperature range (°F)	-0...+50	-0...+50	-20...+50	-0...+50	-20...+50
Common shield material				Metal-coated film	Metal-coated film
Coupling attenuation	Type III	Type III	Type III	Type II	Type II
Transfer impedance				Grade 2	Grade 2
NVP, %	68	68	68	68	68
Fire safety certificate	*	*	*	*	*
GOST R certificate	*	*	*	*	*
ISO/IEC 11801	*	*	*	*	*
EIA/TIA-568-B.2-10	*	*	*	*	*
Sheath color	White	5 colors ¹	Black	White	Black
Net weight (kg/km)	35	36	32	37	37
Packaging	305 m in box	305 m in box	500 m spool	305 m in box	305 m in box

Part No. 19C-U5-03WT-B305 19C-U5-23yy-B305 19C-U5-07BL-R500 19C-F5-23WT-B305 19C-F5-07BL-B305

¹ □ white (WT), ■ yellow (YL), ■ red (RD), ■ blue (BU), ■ green (GR).



[1] CAT 5E unshielded cables

- Cat 5e U/UTP cable
- Sheath made of PVC, low-smoke halogen-free compound or polyethylene
- Supports 1000BASE-T
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements
- Sheath colors:
 - LSZH — white, yellow, red, blue, green
 - PVC — white
 - PE for outdoor laying — black

[2, 3] CAT 5E SHIELDED CABLES

- Cat 5e F/UTP cable
- Supports 1000BASE-T
- Type II cable shield
- Drain conductor – 0.4 mm, solid tin-plated copper
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements
- Sheath colors:
 - LSZH — white
 - PE for outdoor laying — black

CAT 5E UNSHIELDED CABLES

Fig.	Part No.	Description	Color				
[1]	19C-U5-03WT-B305	Cat 5e U/UTP cable	4 pairs	box	305 m	PVC	□ white
	19C-U5-23WT-B305	Cat 5e U/UTP cable	4 pairs	box	305 m	LSZH	□ white
	19C-U5-23YL-B305	Cat 5e U/UTP cable	4 pairs	box	305 m	LSZH	■ yellow
	19C-U5-23RD-B305	Cat 5e U/UTP cable	4 pairs	box	305 m	LSZH	■ red
	19C-U5-23BU-B305	Cat 5e U/UTP cable	4 pairs	box	305 m	LSZH	■ blue
	19C-U5-23GR-B305	Cat 5e U/UTP cable	4 pairs	box	305 m	LSZH	■ green
	19C-U5-07BL-R500	Cat 5e U/UTP cable for outdoor laying	4 pairs	spool	500 m	PE	■ black

SHIELDED CAT 5E CABLES

Fig.	Part No.	Description	Color				
[2]	19C-F5-23WT-B305	Cat 5e F/UTP cable	4 pairs	box	305 m	LSZH	□ white
[3]	19C-F5-07BL-B305	Cat 5e F/UTP cable for outdoor laying	4 pairs	box	305 m	PE	■ black

For information on multi-pair Cat 5e cables, see the section titled "Stranded Cables".



[1]



[2]



[3]



[4]

The Cat 5e integrated patch panel unit is based on circuit boards carrying eight-position modular connectors with Type 110 rear-side terminals.

[1, 2, 4] CAT 5E UTP INTEGRATED PANELS

- 1U with 24 ports, 2U with 48 ports
- Wallmount with 12 ports including a 89D mounting bracket
- Terminals marked for T568A and T568B wiring schemes
- Compatible conductor diameter range: 0.404 to 0.643 mm (26 AWG – 22 AWG)
- Front and rear port markings
- Front panel color: RAL 9005 black
- Rear-side cable organizer(s) included (1x for every 24 ports)
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements

[3] CAT 5E FTP INTEGRATED PANELS

- 1U with 24 ports
- IDC T568A, T568B color-coded connectors
- Compatible conductor diameter range: 0.404 to 0.643 mm (26 AWG – 22 AWG)
- Front and rear port markings
- Front panel color: RAL 9005 black
- Grounding kit
- Rear-side cable organizer in panel housing
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements

CAT 5E INTEGRATED PANELS

Fig.	Part No.	Description	Category	Height	Ports	Type
[1]	27B-U5-24BL	19" integrated panel	category 5e	1U	24 ports	UTP
[2]	27B-U5-48BL	19" integrated panel	category 5e	2U	48 ports	UTP
[3]	27B-F5-24BL	19" integrated panel	category 5e	1U	24 ports	FTP
[4]	27D-U5-12BL	89D wallmount integrated panel	category 5e		12 ports	UTP

In addition to integrated panels, any kinds of shielded and unshielded modular panels with Keystone modules may be used for Cat 5e systems.





[1]



[2]

[1] CAT 5E UNSHIELDED KEYSTONE MODULES

- Compatible with Q-Tool for quick and reliable installation
- Markings for T568A and T568B wiring schemes
- Rear-side type 110 punchdown termination block
- 30.0 mm deep
- Can be terminated using 10T-P0-01 or similar IDC tool
- 6 colors
- Terminal contacts protected with plastic cap
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements

[2] CAT 5E FRENCH STANDARD MODULES

- Mosaic 22.5 × 45.0 mm form factor
- Markings for T568A and T568B wiring schemes
- Rear-side type 110 punchdown termination block
- Dust cover
- Cords connected at 45°
- 18.0 × 10.0 mm window for interchangeable marking labels
- Color: RAL 9010 white
- Terminated using 10T-P0-01 or similar IDC tool
- Terminal contacts protected with plastic cap
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements



ANGULAR DESIGN ENABLING CORD
CONNECTION WITH NARROWER
CABLE BENDING RADIUS

CAT 5E MODULES

Fig.	Part No.	Description	Color	
[1]	16B-U5-03WT	Cat 5e Keystone UTP module	white	Q-Tool
[1]	16B-U5-03YL	Cat 5e Keystone UTP module	yellow	Q-Tool
[1]	16B-U5-03RD	Cat 5e Keystone UTP module	red	Q-Tool
[1]	16B-U5-03BU	Cat 5e Keystone UTP module	blue	Q-Tool
[1]	16B-U5-03GR	Cat 5e Keystone UTP module	green	Q-Tool
[1]	16B-U5-03BL	Cat 5e Keystone UTP module	black	Q-Tool
[2]	16A-U5-03WT	Cat 5e French standard UTP module	white	



[1]

SHIELDED KEYSTONE CAT 5E MODULES

- Quick and reliable installation using Q-Tool
- Markings for T568A and T568B wiring schemes
- Rear-side type 110 punchdown termination block
- Complete wrap-around shielding
- 37.0 mm deep
- Can be terminated using 10T-P0-01 or similar IDC tool
- Designed for connection of F/UTP, F/FTP, SF/UTP, SF/FTP, U/FTP, S/FTP cables
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements



Q-TOOL (10F-01-01)

ENABLES QUICK INSTALLATION OF KEYSTONE MODULES. MOUNTS AND CUTS 4 PAIRS AT A TIME.

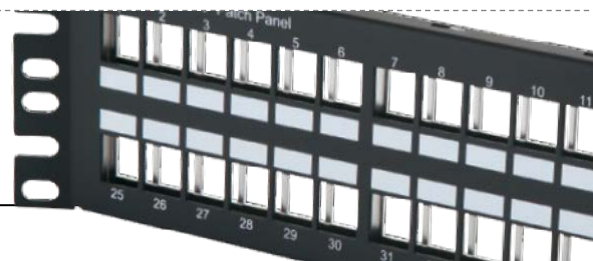


SHIELDED AND UNSHIELDED KEYSTONE CAT 5E FIT INTO MOSAIC FRAMES USING SERIES 45 ADAPTORS: 16B-45-02WT, 16B-45-01WT, 16A-00-08WT

CAT 5E SHIELDED MODULES

Fig.	Part No.	Description	Color	
[1]	16B-F5-07SL	Cat 5e Keystone FTP module	silver	Q-Tool

Both shielded and unshielded Cat 5e Keystone modules are compatible with straight and angular modular patch panels.





UNSHIELDED CAT 5E CORDS

- U/UTP Cat 5e design
- 7 x 0.20 mm stranded wire
- 5.2 mm outer cable diameter
- LSZH grade sheathing
- Narrow form-factor plug for use with high-density panels and switches
- Flexible termination point for long operating life
- 6 colors
- Compatible with T568A and T568B wiring schemes
- Support PoE, PoE+ (802.3af, 802.3at)
- Cat 5e RJ45 UTP plugs
- 1.27 µm (0.05 mil) gold plating on RJ45 plug contacts
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements

UNSHIELDED CAT 5E CORDS

Fig.	Part No.	Description	Length (m)	Sheath
[1]	21D-U5-0Byy	Cat 5e U/UTP patch cord	0.2	LSZH
[1]	21D-U5-0Cyy	Cat 5e U/UTP patch cord	0.3	LSZH
[1]	21D-U5-0Eyy	Cat 5e U/UTP patch cord	0.5	LSZH
[1]	21D-U5-01yy	Cat 5e U/UTP patch cord	1.0	LSZH
[1]	21D-U5-1Eyy	Cat 5e U/UTP patch cord	1.5	LSZH
[1]	21D-U5-02yy	Cat 5e U/UTP patch cord	2.0	LSZH
[1]	21D-U5-03yy	Cat 5e U/UTP patch cord	3.0	LSZH
[1]	21D-U5-05yy	Cat 5e U/UTP patch cord	5.0	LSZH
[1]	21D-U5-01yy	Cat 5e U/UTP patch cord	7.0	LSZH
[1]	21D-U5-10yy	Cat 5e U/UTP patch cord	10.0	LSZH
[1]	21D-U5-15yy	Cat 5e U/UTP patch cord	15.0	LSZH
[1]	21D-U5-20yy	Cat 5e U/UTP patch cord	20.0	LSZH

yy is color: ☐ white (WT), ☐ yellow (YL), ☐ red (RD), ☐ blue (BU), ☐ green (GR), ☐ black (BL).

Cords of other lengths may be ordered separately.



SHIELDED CAT 5E CORDS

- Cat 5e F/UTP design
- 7 × 0.16 mm stranded wire
- 5.6 mm outer cable diameter
- LSZH grade sheathing
- Narrow form-factor plug for use with high-density panels and switches
- Flexible termination point for long operating life
- Compatible with T568A and T568B wiring schemes
- Support PoE, PoE+ (802.3af, 802.3at)
- Cat 5e RJ45 FTP plugs
- 1.27 µm (0.05 mil) gold plating on RJ45 plug contacts
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements

UNSHIELDED CAT 5E CORDS

Fig.	Part No.	Description	Length (m)	Sheath
[1]	21D-F5-0Byy	Cat 5e F/UTP patch cord	0.2	LSZH
[1]	21D-F5-0Cyy	Cat 5e F/UTP patch cord	0.3	LSZH
[1]	21D-F5-0Eyy	Cat 5e F/UTP patch cord	0.5	LSZH
[1]	21D-F5-01yy	Cat 5e F/UTP patch cord	1.0	LSZH
[1]	21D-F5-1Eyy	Cat 5e F/UTP patch cord	1.5	LSZH
[1]	21D-F5-02yy	Cat 5e F/UTP patch cord	2.0	LSZH
[1]	21D-F5-03yy	Cat 5e F/UTP patch cord	3.0	LSZH
[1]	21D-F5-05yy	Cat 5e F/UTP patch cord	5.0	LSZH
[1]	21D-F5-07yy	Cat 5e F/UTP patch cord	7.0	LSZH
[1]	21D-F5-10yy	Cat 5e F/UTP patch cord	10.0	LSZH
[1]	21D-F5-15yy	Cat 5e F/UTP patch cord	15.0	LSZH
[1]	21D-F5-20yy	Cat 5e F/UTP patch cord	20.0	LSZH

Where yy is color: ☐ white (WT), ☐ yellow (YL), ☐ red (RD), ☐ blue (BU), ☐ green (GR), ☐ black (BL).
Cords of other lengths may be ordered separately.



SHIELDED AND UNSHIELDED CAT 5E CONSOLIDATION POINT CABLES

- U/UTP and F/UTP cables with 0.51 mm solid conductors
- Single-ended RJ45 plug
- Cat 5e U/UTP and F/UTP cables
- Outer cable diameter: U/UTP 5.1 mm, F/UTP 6.2 mm
- LSZH grade sheathing
- Flexible termination point for long operating life
- T568B wiring scheme
- Support PoE, PoE+ (802.3af, 802.3at)
- Cat 5e UTP and FTP RJ45 plugs
- 1.27 µm (0.05 mil) gold plating on RJ45 plug contacts
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements



27P-00-12BL CONSOLIDATION POINT

CAT 5E CONSOLIDATION POINT CABLES

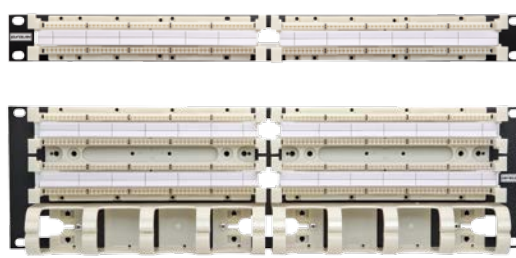
Fig.	Part No.	Description		
[1]	21T-U5-xyyy	Cat 5e U/UTP consolidation point cable	single-ended	LSZH
[2]	21T-F5-xxWT	Cat 5e F/UTP consolidation point cable	single-ended	LSZH

xx is cable length (m), yy is color: ☐ white (WT), ☐ yellow (YL), ☐ red (RD), ☐ blue (BU), ☐ green (GR), ☐ black (BL).

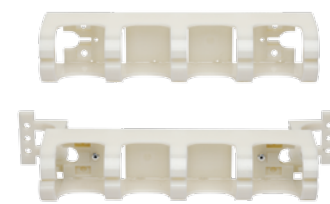
Cu



[1]



[2]



[3]



[4]

TYPE 110 CAT 5E CROSS-CONNECT UNITS, PANELS AND CORDS

- Type 110 Cat5e wallmount units for 50x, 100x and 300x pairs
- Type 110 19" Cat 5e 1U cross-connect panel for 100 pairs
- Type 110 19" Cat 5e 3U cross-connect panel for 200 pairs with cable organizer
- 110C-4 and 110C-5 interconnects for 4x/5x pairs, supplied with marking strips
- Wallmount and 19" cable organizers
- 110-110, 110-RJ45 cords
- Cord sheath: LSZH class
- Cord sheath color: white

CROSS-CONNECT UNITS

Fig.	Part No.	Description	Type
[1]	28A-U5-50WT	Type 110 Cat 5e cross-connect unit for 50 pairs	With support feet
[1]	28A-U5-1HWT	Type 110 Cat 5e cross-connect unit for 100 pairs	With support feet
	28A-U5-3HWT	Type 110 Cat 5e cross-connect unit for 300 pairs	With support feet

19" CROSS-CONNECT PANELS

[2]	28C-U5-1HWT	Type 110 19" Cat 5e cross-connect panel for 100 pairs	1U
[2]	28A-U5-1HWT	Type 110 19" Cat 5e cross-connect panel for 200 pairs with cable organizer	3U

CABLE ORGANIZERS

[3]	25H-11-01WT	Type 110 cable organizer	With support feet
[3]	25H-11-02WT	Type 110 cable organizer	W/o support feet
	25C-1U-01WT	19" Type 110 horizontal cable organizer	1U

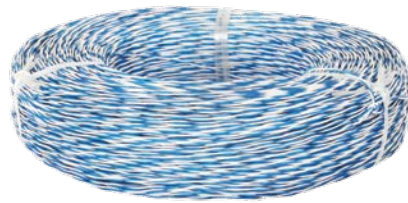
CORDS 110-110

Fig.	Description	1.0 m	2.0 m	3.0 m	5.0 m	7.0 m
[4]	110 -110, 1x pair	22D-11-01WT	22D-11-02WT	22D-11-03WT	22D-11-05WT	22D-11-07WT
[4]	110 -110, 2x pairs	22D-22-01WT	22D-22-02WT	22D-22-03WT	22D-22-05WT	22D-22-07WT
[4]	110 -110, 4x pairs	22D-44-01WT	22D-44-02WT	22D-44-03WT	22D-44-05WT	22D-44-07WT

TYPE 110-RJ45 CORDS

Fig.	Description	1.0 m	2.0 m	3.0 m	5.0 m	7.0 m
	110-RJ45, 1x pair, USOC	22D-18-01WT	22D-18-02WT	22D-18-03WT	22D-18-05WT	22D-18-07WT
	110-RJ45, 2x pairs, T568B	22D-2B-01WT	22D-2B-02WT	22D-2B-03WT	22D-2B-05WT	22D-2B-07WT
	110-RJ45, 4x pairs, T568B	22D-4B-01WT	22D-4B-02WT	22D-4B-03WT	22D-4B-05WT	22D-4B-07WT

[1]



[2]



[3]



EUROLAN CAT 3 UTP solution for transferring data and other signals over lines/links in sub-16 MHz frequency band.

[1] JUMPER WIRE

- 1x pair
- Dia. 0.51 mm copper conductor
- Conductor insulation material: polyethylene
- Color: white/blue
- Packaging: 500 m coil

[2] CAT 3 UNSHIELDED INTEGRATED PANELS

The Cat 3 integrated patch panel unit is based on circuit boards carrying eight-position modular connectors with Type 110 terminals.

- 25 and 50 1U ports
- USOC color coding
- Compatible conductor diameter range: 0.404 to 0.643 mm (26 AWG – 22 AWG)
- USOC cable connection scheme: 1st pair: pins #4, #5; 2nd pair: pins #3, #6
- Color-coded ports with front and rear marking
- Front panel color: RAL 9005
- Rear-side cable organizer in panel housing
- Depth incl. cable organizer: 130.0 mm
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements

[3] UNSHIELDED CAT 3 KEYSTONE MODULES

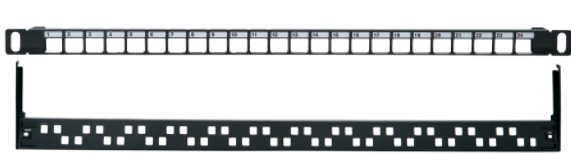
- Quick and reliable installation using Q-Tool
- RJ12 6P6C Cat 3 modular connector socket (6-position, 6-contact)
- For connection of 1x, 2x or 3x paired RJ12 plugs
- Can be terminated using 10T-P0-01 or similar IDC tool
- Color: black

CAT 3 UTP

Fig.	Part No.	Description						Color
[1]	19A-U3-01-R500	UTP jumper wire	1x pair	coil	500 m			
[2]	27B-U3-25BL	19" integrated panel	Category 3	1U	25 ports	UTP	■ black	
[3]	27B-U3-50BL	19" integrated panel	Category 3	1U	50 ports	UTP	■ Black	
	16B-U3-12WT	UTP module	Category 3	Keystone			□ white	
	16B-U3-12BL	UTP module	Category 3	Keystone			■ black	

For information on multi-pair Cat 3 cables, see the section titled "Stranded Cables"

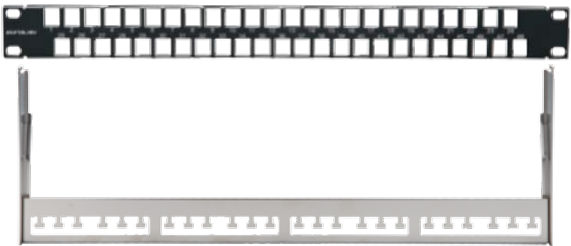
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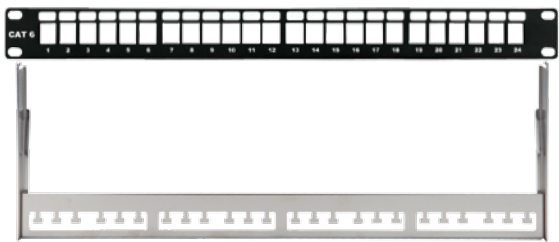
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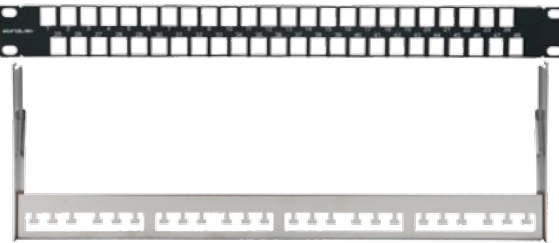
[2]



[3]



[4]



[5]



[6]

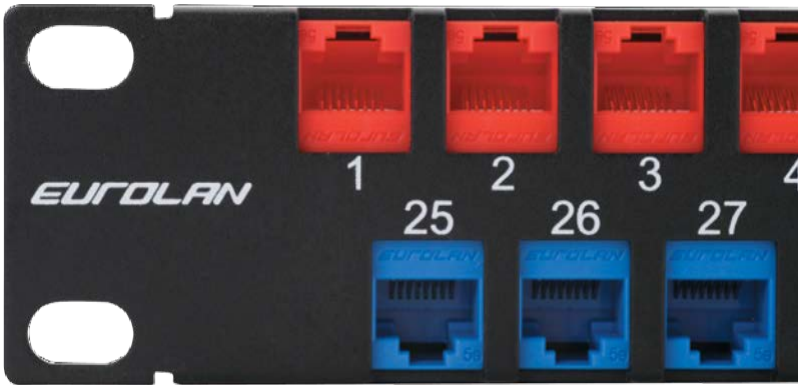
STRAIGHT MODULAR PANELS

- 0.5 and 1U
- 24 and 48 ports
- 48 port 1U high-density panels
- Shielded and unshielded designs
- Grounding kit included with shielded panels
- Can be used with pre-terminated assemblies
- Use Q-Tool-compatible shielded and unshielded Keystone modules
- Port marking.
- Front panel color: RAL 9005
- Rear-side cable organizer included



BLANK COVERS FOR UNUSED SLOTS IN MODULAR PANELS

UNSCREENED MODULES CAN FIT INTO SCREENED PANELS.



STRAIGHT MODULAR PANELS

Fig.	Part No.	Description			
[1]	27B-00-24-05BL	19" modular panel	0.5U	24 ports	UTP
[2]	27B-00-24BL	19" modular panel	1U	24 ports	UTP
[3]	27B-00-48BL	19" modular panel	1U	48 ports	UTP
[4]	27F-00-06-24BL	19" modular panel	1U	24 ports	FTP
[5]	27F-00-48BL	19" modular panel	1U	48 ports	FTP
[6]	16B-00-00BL	Keystone blank cover		■ black	
	16B-00-00WT	Keystone blank cover		□ white	



[1]



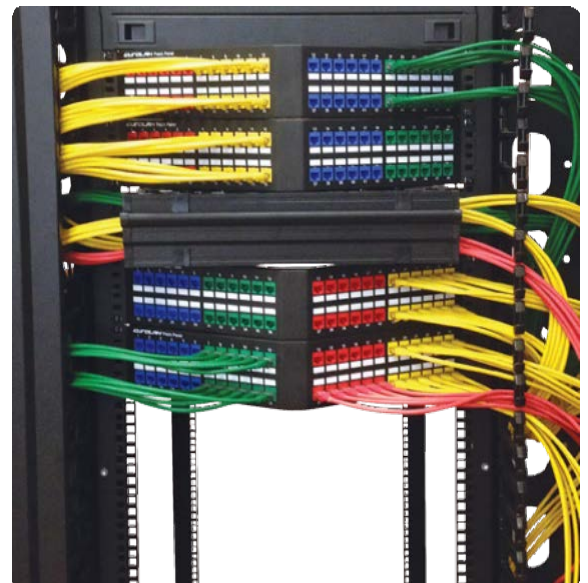
[2]



SHIELDED ANGULAR PANELS

Angular panel shape enables patch cords to be run directly toward vertical cable organizers thus dispensing with horizontal cable organizers. Increased patchboard port density becomes possible as a result.

- 1U and 2U
- 24 and 48 ports
- Angular design makes it easier to meet minimum bending radius requirements while facilitating installation
- Use standard Q-Tool-compatible shielded Keystone modules
- Modules are supplied separately
- Port marking.
- Marking pads
- Rear-side cable organizer(s) included (1x for every 24 ports)
- Front panel color: RAL 9005
- Grounding kit



RECOMMENDED FOR USE IN CABINETS AND RACKS WITH VERTICAL CABLE ORGANIZERS.

SHIELDED ANGULAR PANELS

Fig.	Part No.	Description		
[1]	27A-00-24BL	19" modular panel	1U 24 ports	FTP
[2]	27A-00-48BL	19" modular panel	2U 48 ports	FTP

LAN		
UTP	UTP	UTP
24 ports 0.5U	1U with 24 ports	48 ports 1U
Straight	Straight	Straight
		
		

APPLICATION

LAN	*	*	*
Datacenters and storage systems			
High-density patchboard	*		*
Optimum cord organization			

SPECIFICATIONS

Height (U)	0.5	1	1
Rear-side cable organizer	*	*	*
Depth incl. rear-side organizer (mm)	88.00	88.00	153.30
Minimum front depth (mm)			
Digital port marking	*	*	*
Marking pads		*	
Grounding kit			
Full-metal structure	*		*
Color	RAL 9005	RAL 9005	RAL 9005

COMPATIBLE MODULES

Installable module types	UTP	UTP	UTP
Cat 5e Keystone UTP modules 	*	*	*
Cat 6 Keystone UTP module 	*	*	*
Cat 6A Keystone UTP modules 	*	*	*
Cat 5e Keystone FTP modules 			
Cat 6 Keystone FTP modules 			
Cat 6A Keystone FTP modules 			
Cat 6A RJ45 FTP, 6 UTP, 6 FTP cassettes 			
Part No.	27B-00-24-05BL	27B-00-24BL	27B-00-48BL

		DATACENTER			
FTP	FTP	FTP	FTP	FTP	FTP
1U with 24 ports	12 ports	1U with 24 ports	48 port 2U	48 ports 1U	4/8 cassettes 1U
Straight	Consolidation point	Angular	Angular	Straight	Straight
					

	*	*	*	*	*
	*		*	*	*
				*	*
			*	*	

	1	45.0 mm	1	2	1	1
	*	*	*	*	*	
	153.30	300.0 mm	153.30	120.00	153.30	120.00
			100.00	100.00		
	*	*	*	*	*	*
	*		*	*		*
	*	*	*	*	*	*
	*	*	*	*	*	*
	RAL 9005	RAL 9005	RAL 9005	RAL 9005	RAL 9005	RAL 9005

	UTP/FTP	UTP/FTP	UTP/FTP	UTP/FTP	UTP/FTP	Cassettes
	*	*	*	*	*	
	*	*	*	*	*	
	*	*	*	*	*	
	*	*	*	*	*	
	*	*	*	*	*	
	*	*	*	*	*	
						*
27F-00-06-24BL	27P-00-12BL	27A-00-24BL	27A-00-48BL	27F-00-48BL	27C-00-xxBL	



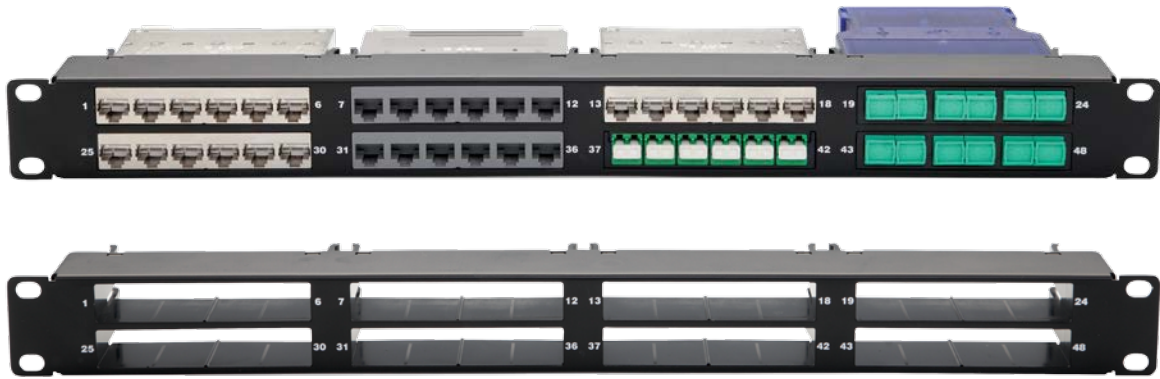
CONSOLIDATION POINT

- Two separate sections: vertical cabling connection section, consolidation point connection section
- Tamper-evident seals may be placed on individual sections
- 12 UTP/FTP ports
- Use standard Q-Tool-compatible unshielded and shielded Keystone modules
- Keystone modules are supplied separately
- Optional optical kits
- Dimensions: height 45.0 mm, width 300.0 mm, depth 300.0 mm
- Color: RAL 9005 black



CONSOLIDATION POINT		
Fig.	Part No.	Description
	27P-00-12BL	Modular consolidation point, 12x UTP/FTP ports

For information on optical kits for the consolidation point, see the section titled "Optical solutions".



[1]



[2]



[3]

CASSETTE PANELS

Cassette panels enable quick installation and improved cable organization for copper cabling systems. They comprise two pieces: the panel itself and an RJ45 or cassette assembly.

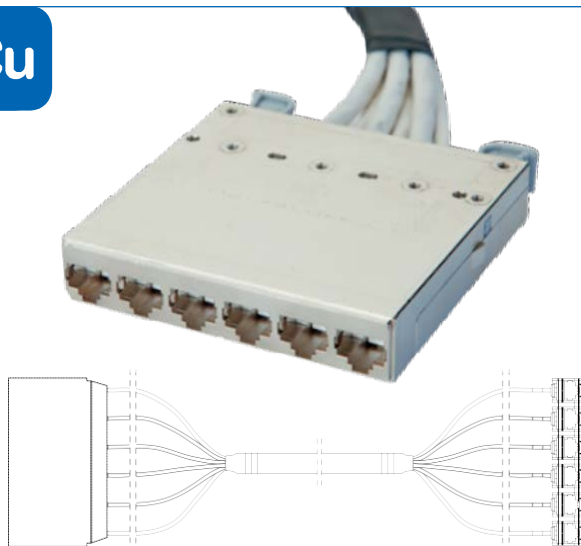
- 1U, 4x or 8x RJ45 cassettes (24 or 48 ports)
- Copper cassettes are available as either preterminated cable assemblies or field-installable cassettes
- Cat 6_A FTP, 6 UTP, 6 FTP cassettes
- Multiple cassettes including optical ones may be mixed together in a single panel
- Cassettes are supplied separately
- Digital port marking
- Front panel color: RAL 9005



CASSETTE PANELS AND CASSETTES

Fig.	Part No.	Description		
	27C-00-24BL	19" cassette panel	1U 4x RJ45 cassettes	FTP
[1]	27C-00-48BL	19" cassette panel	1U 8x RJ45 cassettes	FTP
[2]	27C-00-EA-06BL	6 port cassette	Cat 6 _A	FTP
[3]	27C-00-F6-06BL	6 port cassette	Cat 6	FTP UTP
	27C-00-U6-06BL	6 port cassette	Cat 6	

For information on optical cassettes, see the section titled "Optical Solutions"



PRE-TERMINATED CABLE CASSETTE ASSEMBLIES FOR PANELS MAKE INSTALLATION EASIER THAN EVER. THEY CAN BE RELIED UPON WHEN DEPLOYING HIGH PORT DENSITY SYSTEMS WITH A LIMITED TIME BUDGET.

CASSETTE-TYPE CABLE ASSEMBLIES

- Used together with cassette panels
- Cat 6A FTP, 6 UTP, 6 FTP
- Cassete assemblies may be combined to include Keystone modules and RJ45 plugs or come with single-ended termination
- Cassete port capacity: 6 x RJ45
- Protrusion length: 0.2 m for cassettes, 0.5 for RJ 45 modules and plugs, protrusion included in assy length
- Port marking.
- 100% testing per ISO/IEC 11801, TIA-568-C.2
- LSZH grade sheath for cable and pulling sock
- Quick and easy, effort-saving installation

CASSETTE-TO-CASSETTE CABLE CASSETTE ASSEMBLIES

Part No.	Description	Length (m)	Sheath
24D-yy-06-05BL	cassette-to-cassete assy	5	LSZH
24D-yy-06-10BL	cassette-to-cassete assy	10	LSZH
24D-yy-06-20BL	cassette-to-cassete assy	20	LSZH
24D-yy-06-30BL	cassette-to-cassete assy	30	LSZH
24D-yy-06-40BL	cassette-to-cassete assy	40	LSZH
24D-yy-06-50BL	cassette-to-cassete assy	50	LSZH
24D-yy-06-90BL	cassette-to-cassete assy	90	LSZH

CASSETTE-TO-KEYSTONE-MODULE CABLE CASSETTE ASSEMBLIES

24D-yy-07-05BL	cassette-to-module assy	5	LSZH
24D-yy-07-10BL	cassette-to-module assy	10	LSZH
24D-yy-07-20BL	cassette-to-module assy	20	LSZH
24D-yy-07-30BL	cassette-to-module assy	30	LSZH
24D-yy-07-40BL	cassette-to-module assy	40	LSZH
24D-yy-07-50BL	cassette-to-module assy	50	LSZH
24D-yy-07-90BL	cassette-to-module assy	90	LSZH

CASSETTE-TO-PLUG CABLE CASSETTE ASSEMBLIES

24D-yy-08-05BL	cassette-to-RJ45-plug assy	5	LSZH
24D-yy-08-10BL	cassette-to-RJ45-plug assy	10	LSZH
24D-yy-08-20BL	cassette-to-RJ45-plug assy	20	LSZH
24D-yy-08-30BL	cassette-to-RJ45-plug assy	30	LSZH
24D-yy-08-40BL	cassette-to-RJ45-plug assy	40	LSZH
24D-yy-08-50BL	cassette-to-RJ45-plug assy	50	LSZH
24D-yy-08-90BL	cassette-to-RJ45-plug assy	90	LSZH

SINGLE-ENDED CABLE CASSETTE ASSEMBLIES

24D-yy-09-05BL	single-ended cassette assy	5	LSZH
24D-yy-09-10BL	single-ended cassette assy	10	LSZH
24D-yy-09-20BL	single-ended cassette assy	20	LSZH
24D-yy-09-30BL	single-ended cassette assy	30	LSZH
24D-yy-09-40BL	single-ended cassette assy	40	LSZH
24D-yy-09-50BL	single-ended cassette assy	50	LSZH
24D-yy-09-90BL	single-ended cassette assy	90	LSZH

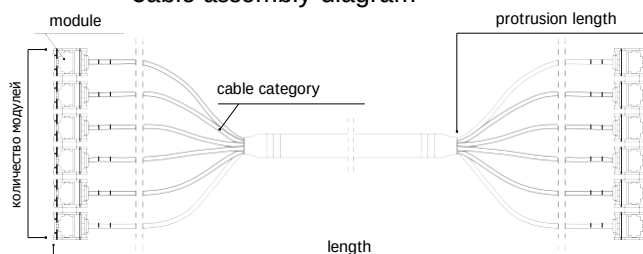
Where yy is TA for Cat 6A U/FTP, ZA for Cat 6A F/FTP, SA for 6A S/FTP, U6 for Cat 6 U/UTP, F6 for Cat 6 F/UTP. Assemblies of other lengths, protrusion dimensions and categories may be ordered separately.

CABLE ASSEMBLIES

- Used together with modular panels
- Cat 6_A UTP, 6_A FTP, 6 UTP, 6 FTP
- Assemblies may be combined to include Keystone modules and RJ45 plugs or come with single-end termination
- A single assembly includes 6 cables
- Protrusion length of 0.5 m included in assembly length
- Port marking.
- 100% testing per ISO/IEC 11801, TIA-568-C.2
- LSZH grade sheath for cable and pulling sock
- Quick and easy, effort-saving installation



Cable assembly diagram



ASSEMBLIES MAY BE TERMINATED WITH KEYSTONE MODULES, RJ45 PLUGS (8P8C) OR COMBINATIONS THEREOF. SINGLE-ENDED TERMINATION OF ASSEMBLIES IS ALLOWED.

THE PULLING-SOCK MATERIAL ENSURES EXTRA PROTECTION OF THE ASSEMBLY DURING INSTALLATION AND FEATURES A REDUCED FRICTION FACTOR TO FACILITATE PULLING.



CABLE TIES ENSURE EXTRA RELIABILITY WHEN SECURING THE CABLE INSIDE THE MODULE

MODULE-TO-MODULE CABLE ASSEMBLIES

24D-yy-01-05BL	module-to-module assy	5	LSZH
24D-yy-01-10BL	module-to-module assy	10	LSZH
24D-yy-01-20BL	module-to-module assy	20	LSZH
24D-yy-01-30BL	module-to-module assy	30	LSZH
24D-yy-01-40BL	module-to-module assy	40	LSZH
24D-yy-01-50BL	module-to-module assy	50	LSZH
24D-yy-01-90BL	module-to-module assy	90	LSZH

MODULE-TO-PLUG CABLE ASSEMBLIES

24D-yy-02-05BL	module-to-RJ45-plug assy	5	LSZH
24D-yy-02-10BL	module-to-RJ45-plug assy	10	LSZH
24D-yy-02-20BL	module-to-RJ45-plug assy	20	LSZH
24D-yy-02-30BL	module-to-RJ45-plug assy	30	LSZH
24D-yy-02-40BL	module-to-RJ45-plug assy	40	LSZH
24D-yy-02-50BL	module-to-RJ45-plug assy	50	LSZH
24D-yy-02-90BL	module-to-RJ45-plug assy	90	LSZH

SINGLE-ENDED MODULE CABLE ASSEMBLIES

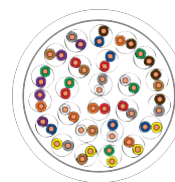
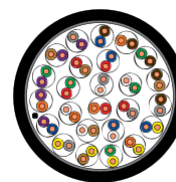
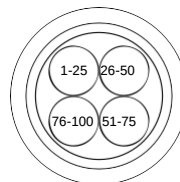
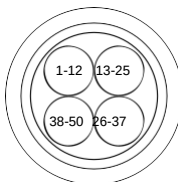
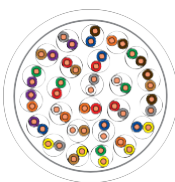
24D-yy-03-05BL	single-ended module assy	5	LSZH
24D-yy-03-10BL	single-ended module assy	10	LSZH
24D-yy-03-20BL	single-ended module assy	20	LSZH
24D-yy-03-30BL	single-ended module assy	30	LSZH
24D-yy-03-40BL	single-ended module assy	40	LSZH
24D-yy-03-50BL	single-ended module assy	50	LSZH
24D-yy-03-90BL	single-ended module assy	90	LSZH

Where yy is TA for Cat 6A U/FTP, ZA for Cat 6A F/FTP, SA for Cat 6A S/FTP, U6 for Cat 6 U/UTP, F6 for Cat 6 F/UTP. Assemblies of other lengths, protrusion dimensions and categories may be ordered separately.

COPPER SOLUTIONS > MULTI-PAIR CABLES

Cu

UNSHIELDED			SHIELDED	
U/UTP	U/UTP	U/UTP	F/UTP	U/UTP
Category 3	Category 3	Category 3	Category 3	Category 5
25 pairs	50 pairs	100 pairs	25 pairs	25 pairs
LSZH	LSZH	LSZH	PE for outdoor laying	LSZH



APPLICATION

SCS horizontal subsystem					*
SCS backbone subsystems	*	*	*	*	*
10Base-T.100Base-T					*
1000Base-T					
PoE, PoE+ (802.3af, 802.3at)					*
Indoor laying	*	*	*		*
Outdoor laying				*	

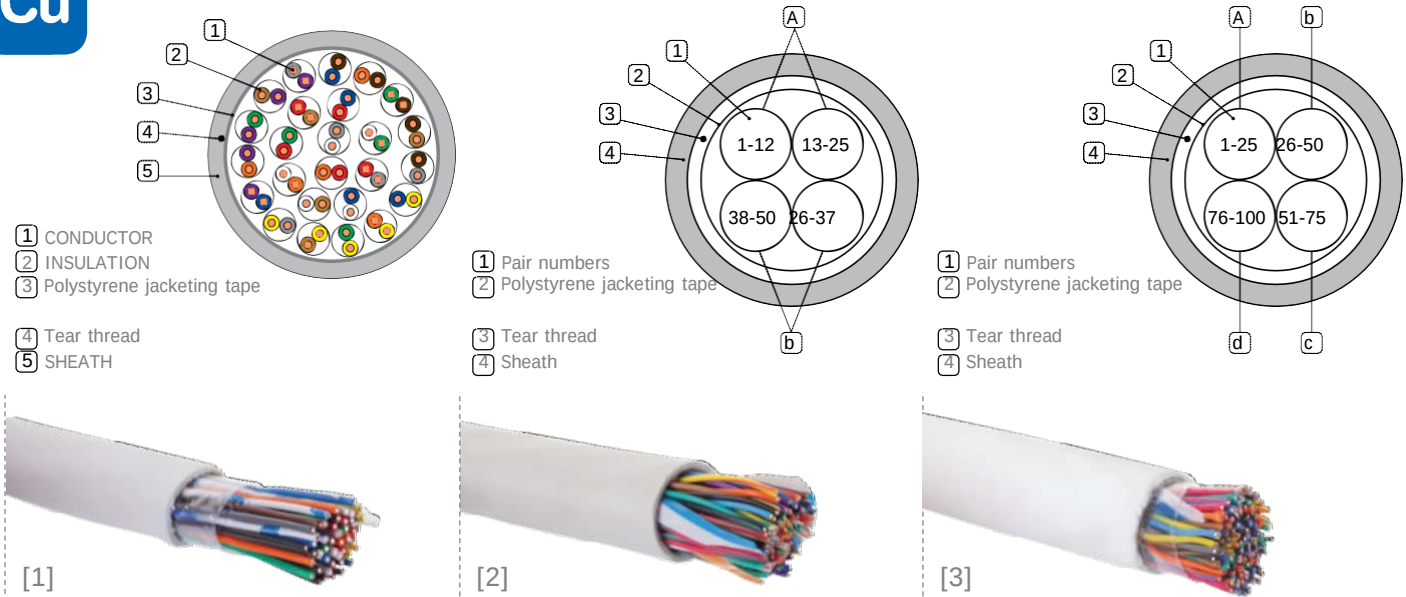
SPECIFICATIONS

Number of pairs	25	50	100	25	25
Conductor diameter (mm)	0.51	0.51	0.51	0.51	0.51
Conductor insulation material	PE	PE	PE	PE	PE
Conductor diameter w/insulation (mm)	0.95	0.95	0.95	0.95	0.95
Outer diameter (mm)	12.0	15.7	24.0	13.0	13.3
Flame-retardant (Grade C)				*	
Flame-retardant (Grade C-HF P3.8.1.2.1)	*	*	*		*
Operating temperature range (°C)	-20...+60	-20...+60	-20...+60	-40...+60	-20...+60
Installation temperature range (°F)	-0...+50	-0...+50	-0...+50	-20...+50	-0...+50
Cross-shaped dielectric separator					
Common shield material				Metal-coated film	
Coupling attenuation	Type III	Type III	Type III	Type II	Type III
Transfer impedance				Grade 2	
NVP, %	68	68	68	68	68
Fire safety certificate	*	*	*	*	*
GOST R certificate	*	*	*	*	*
ISO/IEC 11801	*	*	*	*	*
EIA/TIA-568-B.2-10	*	*	*	*	*
Sheath color	White	White	White	Black	White
Net weight (kg/km)	170	310	570	190	180
Packaging	Spool 500 m	Spool 1000 m	Spool 500 m	Spool 500 m	Spool 500 m

Part No.	19M-U3-73WT-R305	19M-U3-83WT-R1000	19M-U3-93WT-R500	19M-F3-72BL-R500	19M-U5-75WT-R500
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UNSHIELDED

U/UTP	U/UTP	U/UTP	U/UTP	U/UTP	U/UTP	U/UTP
Category 5	Category 5	Category 5e	Category 5e	Category 5e	Category 5e	Category 6
50 pairs	100 pairs	24 pairs	48 pairs	24 pairs	48 pairs	24 pairs
LSZH	LSZH	LSZH	LSZH	PE for outdoor laying	PE for outdoor laying	LSZH
*	*	*	*			*
*	*	*	*	*	*	*
*	*	*	*	*	*	*
		*	*	*	*	*
*	*	*	*	*	*	*
*	*	*	*			*
				*	*	
50	100	24 (6 × 4)	48 (12 × 4)	24 (6 × 4)	48 (12 × 4)	24 (6 × 4)
0.51	0.51	0.51	0.51	0.51	0.51	0.57
PE	PE	PE	PE	PE	PE	PE
0.95	0.95	0.95	0.95	0.95	0.95	1.02
17.3	28.0	15.5	21.5	15.5	21.5	20.0
				*	*	
*	*	*	*			*
-20...+60	-20...+60	-20...+60	-20...+60	-40...+60	-40...+60	-20...+60
-0...+50	-0...+50	-0...+50	-0...+50	-20...+50	-20...+50	-0...+50
						*
Type III	Type III	Type III	Type III	Type III	Type III	Type III
68	68	68	68	68	68	69
*	*	*	*	*	*	*
*	*	*	*	*	*	*
*	*	*	*	*	*	*
*	*	*	*	*	*	*
White	White	White	White	Black	Black	White
370	650	270	490	270	490	390
500 m spool	500 m spool	500 m spool	500 m spool	500 m spool	500 m spool	500 m spool
19M-U5-85WT-R500	19M-U5-95WT-R500	19M-U5-64WT-R500	19M-U5-65WT-R500	19M-U5-66BL-R500	19M-U5-67BL-R500	19M-U6-64WT-R500

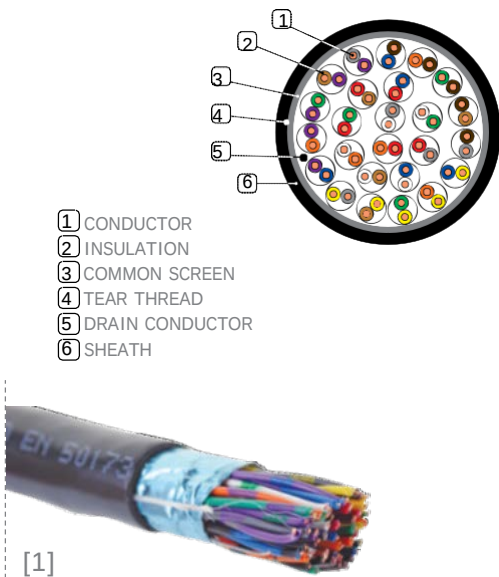


CAT 3 UNSHIELDED MULTI-PAIR CABLES

- U/UTP design
- Category 3
- 25x, 50x, 100x pairs
- LSZH grade sheathing
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements
- For color coding, see the section titled "Color coding for Cat 3/5 multi-pair cables"
- Sheath color: white

CAT 3 U/UTP MULTI-PAIR CABLES

Fig.	Part No.	Description		Color
[1]	19M-U3-73WT-R305	Cat 3 U/UTP cable	25x pairs 305 m spool LSZH	☐ white
[2]	19M-U3-83WT-R1000	Cat 3 U/UTP cable	50x pairs 1000 m spool LSZH	☐ white
[3]	19M-U3-93WT-R500	Cat 3 U/UTP cable	100x pairs 500 m spool LSZH	☐ white

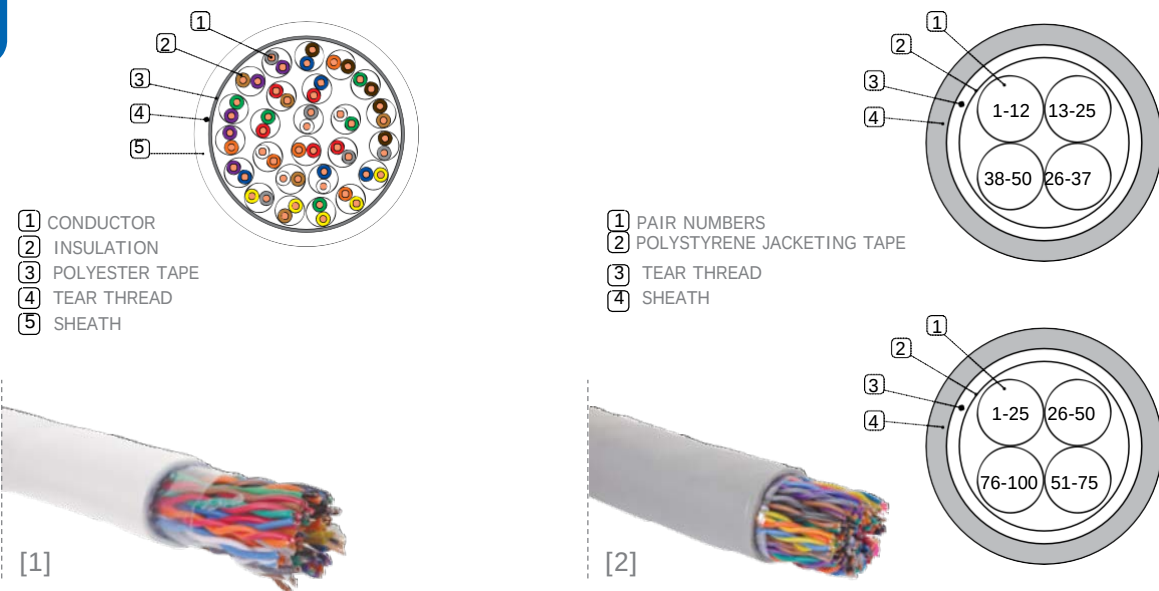


CAT 3 SHIELDED MULTI-PAIR CABLES FOR OUTDOOR LAYING

- F/UTP design
- Category 3
- 25x pairs
- PE sheath
- Shield material: aluminum foil
- Color coding identical to Cat 3 U/UTP multi-pair cables
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements
- For color coding, see the section titled "Color coding for Cat 3/5 multi-pair cables"
- Sheath color: black

CAT 3 F/UTP MULTI-PAIR CABLES

Fig.	Part No.	Description	Color
[1]	19M-F3-72BL-R500	Cat 3 U/UTP cable for outdoor laying pairs 305 m spool LSZH	25x black

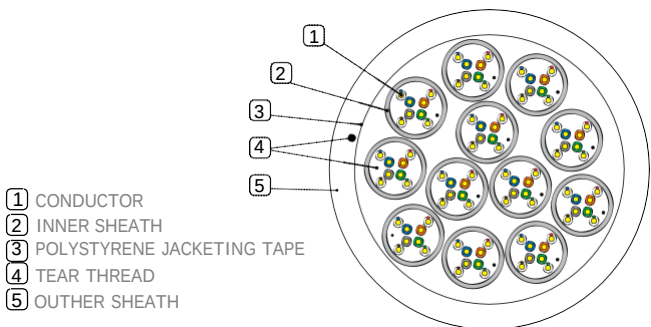
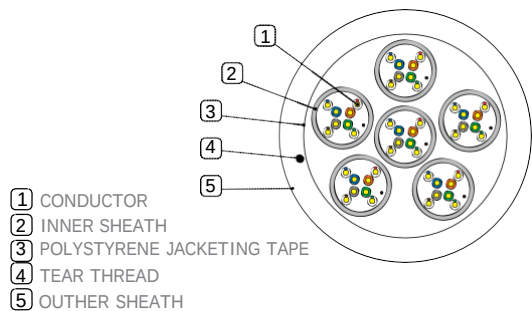


CAT 5 UNSHIELDED MULTI-PAIR CABLES

- U/UTP design
- Category 5
- 25x, 50x, 100x pairs
- LSZH class sheath
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements
- For color coding, see the section titled "Color coding for Cat 3/5 multi-pair cables"
- Sheath color: white

CAT 5 U/UTP MULTI-PAIR CABLES

Fig.	Part No.	Description						Color
[1]	19M-U5-75WT-R500	Cat 5 U/UTP cable	25 pairs	spool	500 m	LSZH		☐ white
[2]	19M-U5-85WT-R500	Cat 5 U/UTP cable	50 pairs	spool	500 m	LSZH		☐ white
	19M-U5-95WT-R500	Cat 5 U/UTP cable	100 pairs	spool	500 m	LSZH		☐ white

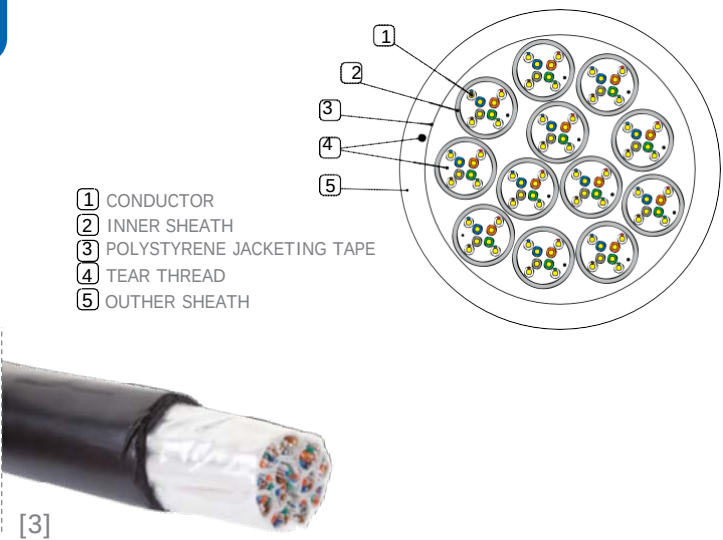


[1-2] CAT 5E UNSHIELDED MULTI-MEMBER CABLES

- U/UTP design
- 6x or 12x four-pair cables enclosed in a common sheath
- Category 5e
- 24x and 48x pairs
- LSZH grade outer sheathing
- LSZH grade inner sheathing
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements
- Each internal cable marked with numbers 1 to 12
- Sheath color: white

CAT 5E MULTI-COMPONENT U/UTP CABLES

Fig.	Part No.	Description						Color
[1]	19M-U5-64WT-R500	Cat 5e U/UTP cable	24 pairs	spool	500 m	LSZH		white
[2]	19M-U5-65WT-R500	Cat 5e U/UTP cable	48 pairs	spool	500 m	LSZH		white



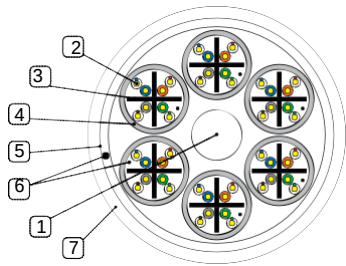
[3]

[3] CAT 5E UNSHIELDED MULT—MEMBER CABLES FOR OUTDOOR LAYING

- U/UTP design
- 6x or 12x four-pair cables enclosed in a common sheath
- Category 5e
- 24x and 48x pairs
- Polyethylene outer sheath
- LSZH grade inner sheathing
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements
- Each internal cable marked with numbers 1 to 12
- Sheath color: black

CAT 5E MULTI-COMPONENT U/UTP CABLES							
Fig.	Part No.	Description					Color
	19M-U5-66BL-R500	Cat 5e U/UTP cable for outdoor laying	24x pairs	spool	500 m	PE	black
[3]	19M-U5-67BL-R500	Cat 5e U/UTP cable for outdoor laying	48x pairs	spool	500 m	PE	black

- ① CENTRAL REINFORCEMENT MEMBER
- ② CONDUCTOR
- ③ CROSS-SHAPED SEPARATOR
- ④ INNER SHEATH
- ⑤ POLYSTYRENE JACKETING TAPE
- ⑥ TEAR THREAD
- ⑦ OUTER SHEATH



CAT 6 UNSHIELDED MULTI-MEMBER CABLES

- U/UTP design
- 6x four-pair cables enclosed in a common sheath
- Dielectrical rod as central reinforcement member
- Category 6
- 24x pairs
- LSZH grade outer sheathing
- LSZH grade inner sheathing
- Component specifications comply with ISO/IEC 11801 and TIA-568-C.2 requirements
- Each internal cable marked with numbers 1 to 6
- Sheath color: white

CAT 6 U/UTP MULTI-MEMBER CABLES

Fig.	Part No.	Description					Color
[1]	19M-U6-64WT-R500	Cat 6 U/UTP cable	24 pairs	spool	500 m	LSZH	□ white

COLOR CODING FOR CAT 3 AND 5 MULTI-PAIR CABLES

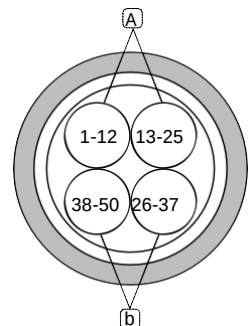
COLOR CODING FOR 25-PAIR CABLES

1st wire	Pair No.	2nd wire
White/blue	1	Blue/white
White/orange	2	Orange/white
White/green	3	Green/white
White/brown	4	Brown/white
White/gray	5	Gray/white
Red/blue	6	Blue/red
Red/orange	7	Orange/red
Red/green	8	Green/red
Red/brown	9	Brown/red
Red/gray	10	Gray/red
Black/blue	11	Blue/black
Black/orange	12	Orange/black
Black/green	13	Green/black
Black/brown	14	Brown/black
Black/gray	15	Gray/black
Yellow/blue	16	Blue/yellow
Yellow/orange	17	Orange/yellow
Yellow/green	18	Green/yellow
Yellow/brown	19	Brown/yellow
Yellow/gray	20	Gray/yellow
Purple/blue	21	Blue/purple
Purple/orange	22	Orange/purple
Purple/green	23	Green/purple
Purple/brown	24	Brown/purple
Purple/gray	25	Gray/purple

COLOR CODING FOR 50-PAIR CABLES

- (A) Harnesses of pairs Nos. 1–12 and 13–25 are marked with white-blue wrapping tape
 (B) Harnesses of pairs Nos. 26–37 and 38–50 are marked with white-orange wrapping tape

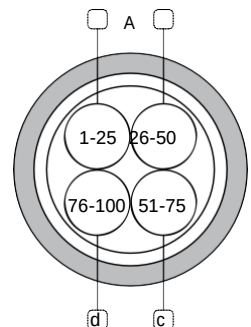
Pairs Nos. 1–25 and 26–50 match the color coding of 25-pair cables



COLOR CODING FOR 100-PAIR CABLES

- (A) Harnesses of pairs Nos. 1–25 are marked with white-blue wrapping tape
 (B) Harnesses of pairs Nos. 26–50 are marked with white-orange wrapping tape
 (C) Harnesses of pairs Nos. 51–75 are marked with white-green wrapping tape
 (D) Harnesses of pairs Nos. 76–100 are marked with white-brown wrapping tape

Pairs Nos. 1–25, 26–50, 51–75 and 76–100 match the color coding of 25-pair cables.





[1]



[2]



[3]



[4]



[5]

[1] 110/66 SINGLE-WIRE PUNCHDOWN TOOL

- Mounts and cuts wire with a single press of the handle
- Comes with Type 110 and 66 replacement blades
- Steel bayonet clamp for blades

[2] 110 FIVE-PAIR PUNCHDOWN TOOL

- For Type 110 cross-connect units and panels
- Mounts and cuts five pairs with a single press of the handle
- Natural-contoured handle

[3] CUTTING TOOL

- Designed for 4-pair unshielded and shielded cables
- Integral Type 110 blade

[4] PALM-PUCK MODULE MOUNTING TOOL

- For mounting of Keystone modules
- Holds down the socket module tightly
- Prevents module damage and keeps installer's hands safe of injury

[5] Q-TOOL

- Enables quick mounting of Keystone modules
- Mounts and cuts 4 pairs at a time
- Maintains highly reproducible mounting performance ensuring that any variation in electrical connection properties is reduced to an absolute minimum

TOOLS

Fig.	Part No.	Description
[1]	10T-P0-01	110/66 single-conductor punchdown tool
[2]	10T-P0-11	Type 110 replacement blade
	10T-P0-66	Type 66 replacement blade
	10T-P5-01	Type 110 punchdown tool for 5x pairs with blade
[3]	10T-P0-02	Cutting tools
[4]	10T-P0-04BU	Palm-puck Keystone module mounting tool
[5]	10F-01-01	Q-Tool
	10F-01-02	Q-Tool replacement blade

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