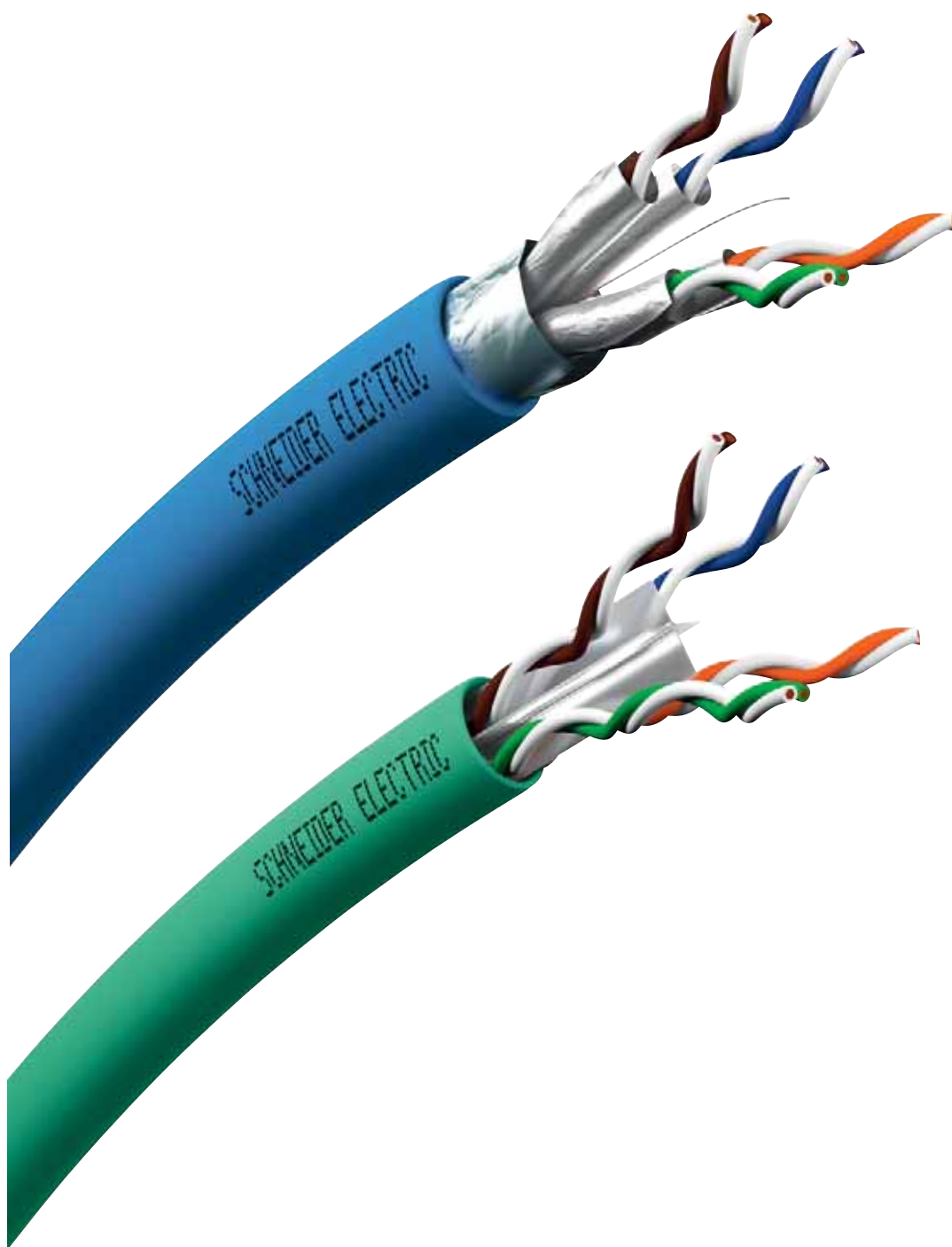


Network Connectivity

# Copper LAN cables

Product catalogue 2010



# Copper LAN cables. Part of a total solution.

The Schneider Electric copper LAN cables are an important part of our total Network Connectivity solution that also includes panels, cabinets, connectors etc. All Network Connectivity products are specially designed to work perfectly together with complementary Schneider Electric products like trunking, poles, boxes and wiring devices in order to deliver true and seamless end-to-end connectivity. Our target is to provide stylish and ergonomic network connections at workplaces to make your life easier and enhance productivity.



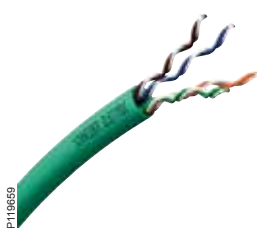
## Schneider Electric network connectivity

- 1 Cabinets
- 2 Panels for data, fibre optic and telecom
- 3 Copper LAN and fibre optic cables
- 4 RJ45 data sockets in trunking
- 5 RJ45 data sockets in poles
- 6 RJ45 data sockets in floor boxes
- 7 RJ45 data sockets in posts
- 8 RJ45 data sockets in furniture boxes



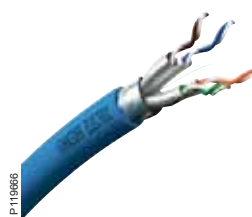


## Cables from Category 5 to Category 7<sub>A</sub> for all needs



### Green cables CL-C offer

For your day-to-day applications from Category 5 to Category 6<sub>A</sub> UUTP and FUTP versions. Reliable performances in line with the standards. Copper LAN CL-C is easy to install and easy to identify among other types of cable.



### Blue cables CL-MNC offer

For your high-end installations, future-proof applications, or for prescribing. Available in Category 6, 6<sub>A</sub> and Category 7<sub>A</sub>. Copper LAN CL-MNC is your very high performance solution.

# Technical features

Our offer is split in two parts to satisfy all possible needs.

## CL-C offer

For your day-to-day installations, based on UUTP and FUTP cables, from Category 5 to Category 6<sub>A</sub>.

With these two structures, you will have no questions during installation, always the same way to do, no specificities, no surprise!



## CL-MNC offer

Optimized for performances from Category 6<sub>A</sub> to Category 7<sub>A</sub> 1000 MHz.

Recognizable by the blue colour of the external sheath, each reference surpasses the standard by 3 dB minimum. Thus, you will have more security during the test of the installation and you will get optimal performances.



## Specific cross filler

With an optimized design and specific micro-blades, you will have better performances in NEXT and ELFEXT, and a better resistance to the mechanical constraints.



## Conductivity

For the whole offer, the conducting side of the shield is turned outwards. Thus, there is no need to turn the shield inside out before applying the connector to have a good conductivity. You will gain time during installation, there will be no destruction of the shield and you will get very good shielding.



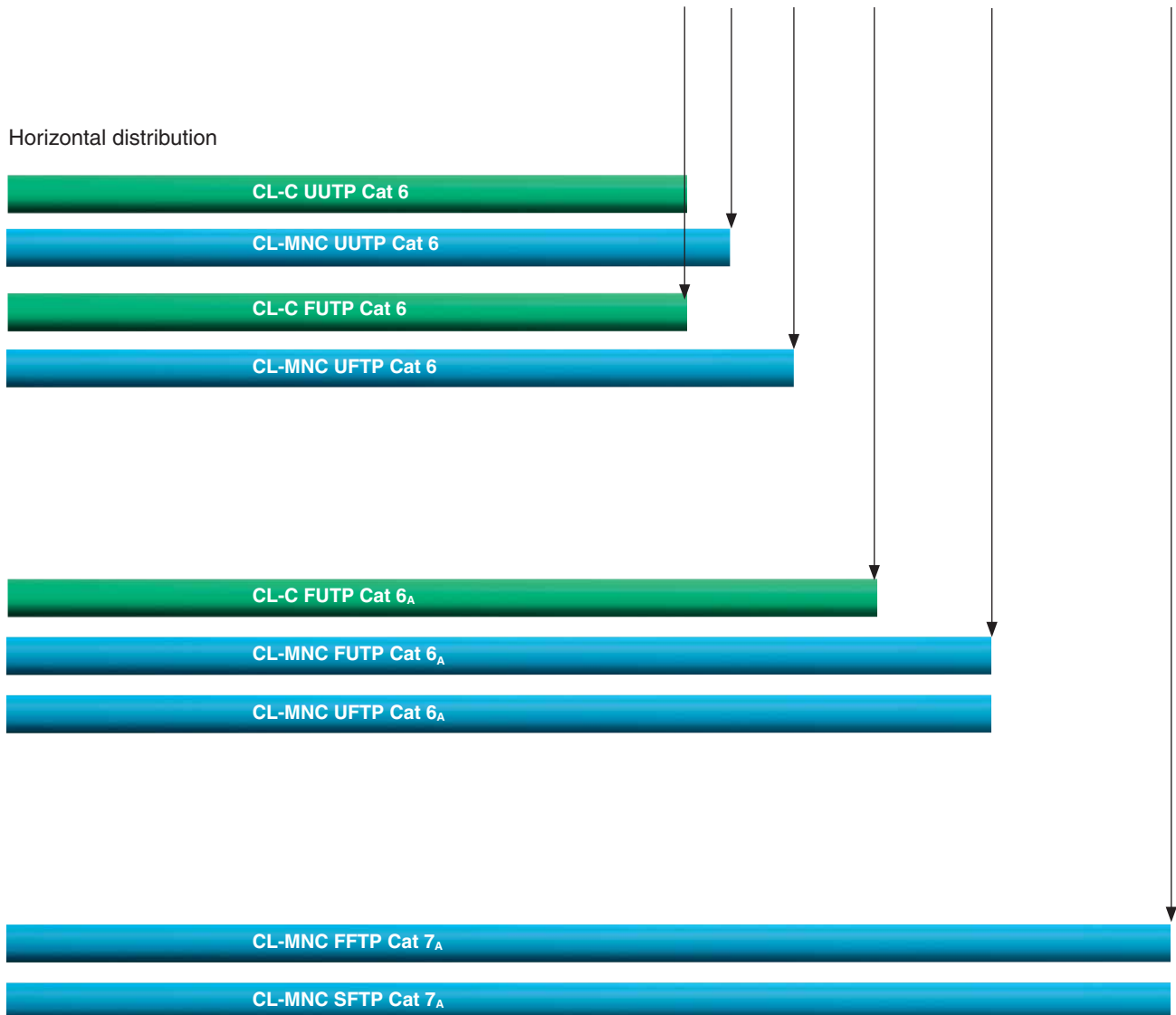
# Choice guide

Green cables	Level of performances			Frequency
	10/100/1G	10G	Video	
Class D UUTP	100 m	0 m	30 m	155 MHz
Class D FUTP	100 m	0 m	30 m	155 MHz
Class E UUTP	100 m	37 m	55 m	250 MHz
Class E FUTP	100 m	55 m	55 m	250 MHz
Class E SF/UTP	100 m	55 m	70 m	250 MHz
Class Ea FUTP	100 m	100 m	75 m	500 MHz

Blue cables	Level of performances			Frequency
	10/100/1G	10G	Video	
Class E UUTP	100 m	37 m	70 m	300 MHz
Class E UFTP	100 m	55 m	70 m	300 MHz
Class Ea FUTP	100 m	100 m	75 m	550 MHz
Class Ea UFTP	100 m	100 m	75 m	550 MHz
Class Fa SFTP	100 m	100 m	100 m	1000 MHz
Class Fa FFTP	100 m	100 m	105 m	1000 MHz

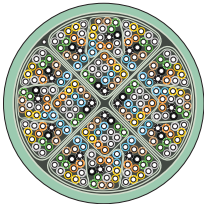
# Performances

Frequency (MHz)	250			500		1000
Attenuation (dB)*	33	33	33	45.3	45.3	61.9
NEXT (dB)*	39.3	42.3	59.3	34.8	54.8	60.4
ACR-F (dB)*	20	23	20	14	24	35.3
Characteristic impedance (ohms)	100	100	100	100	100	100
Propagation speed (%c)	66	66	78	70	70	78



\* Nominal characteristics given for 100 meters at maximum frequencies:  
250 MHz for Category 6, 500 MHz for Category 6<sub>A</sub>, 1000 MHz for Category 7<sub>A</sub>.

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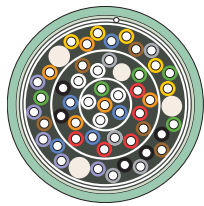
CL-C F/UTP Multi pair cable Category 3

**Specifications**  
b 100 ohms, 16 MHz, AWG24, 128 twisted pairs with overall screen  
b Compliant to IEC61156-1 standard  
b External sheath, colour green, LSZH

**Use**  
b Phone backbone

Type	Weight	Diameter	Cond/Length	Ref. No
128 pair cable	759 kg/km	< 23.5 mm	Drum/meter	VDIC235212

P119918



CL-C F/UTP Multi pair cable Category 5

**Specifications**  
b 100 ohms, 100 MHz, AWG24, 25 twisted pairs with overall screen  
b External sheath, colour green, LSZH

**Performances**  
b Compliant to ISO 11801, EN50173 and IEC61156-4 standards  
b Organization of the pairs in three levels (for 25 pairs) with aramid fibre

Type	Weight	Diameter	Cond/Length	Ref. No
25 pair cable	210 kg/km	13.6 mm	Drum/meter	VDIC235225

Our multipair cables are sold in meters, from minimum 50 meters to 400 meters. Lengths between 400 and 500 m are always delivered in drums of 500 m.

CL-C U/UTP Category 5

**Specifications**  
b 100 Ohms, 155 MHz, 4 pairs or 2x4 twisted pairs without screen, outer sheath green LSZH.  
b Compatible with PoE standards (Power over Ethernet) and PoEP (Power over Ethernet Plus) which allow to supply equipments (IP phone, camera, WIFI hotspot...) until 13W or 25W

**Performances**  
b Compliant to EN50173-1, ISO/IEC11801 Ed2, IEC61156-5 and TIA/EIA-568-B.2 standards

NEXT	Nominal	Standard IEC
100 MHz	35.3 dB	≥ 35.3 dB

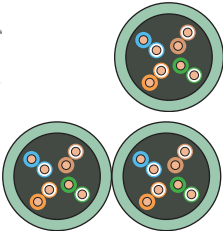
**Use**  
b Cabling for Voice, Data, Images horizontal and vertical Category 5 / Class D. High rates transmission: Gigabit Ethernet, 10/100base T.

Type	Weight	Diameter	Cond/Length	Ref. No
4 pair cable	37 kg/km	6.5 mm	305 m	VDIC115118
			500 m	VDIC115218
2x4 pair cable	74 kg/km	6.5x13.4 mm	500 m	VDIC115228

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P120014



**CL-C F/UTP Category 5****Specifications**

- b 100 ohms, 155 MHz, 4 pairs or 2x4 pairs with overall screen outer sheath green LSZH
- b Compatible with PoE (Power over Ethernet) and PoEP (Power over Ethernet Plus) which allow to supply equipments (IP phone, camera, WIFI hotspot...) until 13W or 25W

**Performances**

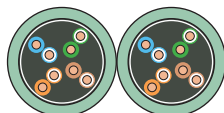
- b Compliant to EN50173-1, ISO/IEC11801 Ed 2, IEC61156-5 and EN50288-2-1 standards

NEXT	Nominal	Standard IEC
100 MHz	35.3 dB	≥ 35.3 dB

**Use**

- b Cabling systems for voice, data and image in Category 5/ Class D. High rates transmission: Gigabit Ethernet, 10/100 BaseT

Type	Weight	Diameter	Cond/Length	Ref. No
4 pair cable	37 kg/km	6.5 mm	305 m	VDIC135118
			500 m	VDIC135218
2x4 pair cable	74 kg/km	6.5x13.4 mm	500 m	VDIC135228

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**CL-C U/UTP Category 6****Specifications**

- b 100 ohms, 250 MHz, 4 pairs or 2x4 pairs without screen, outer sheath green LSZH
- b Compatible with PoE (Power over Ethernet) and PoEP (Power over Ethernet Plus) which allow to supply equipments (IP phone, camera, WIFI hotspot...) until 13W or 25W

**Performances**

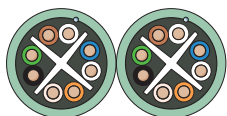
- b Compliant to EN50173-1, ISO/IEC11801 Ed 2, IEC61156-5, EN50288-6-1 and TIA/EIA-568-B.2-1 standards

NEXT	Nominal	Standard IEC
250 MHz	39.3 dB	≥ 39.3 dB

**Use**

- b Cabling systems for voice, data and image in Category 6/ Class E. High rates transmission: ATM-1200, Gigabit Ethernet, 10/100 Base T

Type	Weight	Diameter	Cond/Length	Ref. No
4 pair cable	48 kg/km	6.1 mm	305 m	VDIC116118
			500 m	VDIC116218
2x4 pair cable	96 kg/km	6.1x13.2 mm	500 m	VDIC116228

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P120017



**CL-C F/UTP Category 6****Specifications**

- b 100 ohms, 250 MHz, 4 pairs or 2x4 pairs with overall screen outer sheath green LSZH. Cross filler to organize the pairs. Outward shield (aluminium side outside)
- b Compatible with PoE (Power over Ethernet) and PoEP (Power over Ethernet Plus) which allow to supply equipments (IP phone, camera, WIFI hotspot...) until 13W or 25W

**Performances**

- b Compliant to EN50173-1, ISO/IEC11801 Ed 2, IEC61156-5 and EN50288-5-1 standards

NEXT	Nominal	Standard IEC
250 MHz	39.3 dB	> 39.3 dB

**Use**

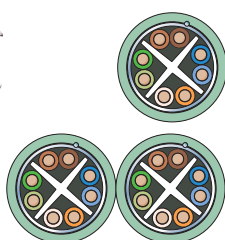
- b Cabling systems for voice, data and image in Category 6/ Class E. High rates transmission: ATM-1200 Gigabit Ethernet, 10/100 BaseT

Type	Weight	Diameter	Cond/Length	Ref. No
4 pair cable	56 kg/km	7.5 mm	500 m	VDIC136218

2x4 pair cable	113 kg/km	7x15 mm	500 m	VDIC136228
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**CL-C SF/UTP Category 6****Specifications**

- b 100 ohms, 250 MHz, 4 pairs with overall screen + metallic braid, outer sheath green LSZH
- b Compatible with PoE (Power over Ethernet) and PoEP (Power over Ethernet Plus) which allow to supply equipments (IP phone, camera, WIFI hotspot...) until 13W or 25W

**Performances**

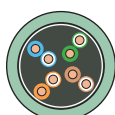
- b Compliant to EN50173-1, ISO/IEC11801 Ed2, IEC61156-5 and EN50288-5-1 standards

NEXT	Nominal	Standard IEC
250 MHz	39.3 dB	> 39.3 dB

**Use**

- b Cabling systems for voice, data and image in Category 6/ Class E. High rates transmission: Gigabit Ethernet, 10/100 BaseT

Type	Weight	Diameter	Cond/Length	Ref. No
4 pair cable	56 kg/km	7.9 mm	500 m	VDIC176218

P119662  
P120015**CL-C F/UTP Category 6<sub>A</sub>****Specifications**

- b 100 ohms, 500 MHz, 4 pairs or 2x4 pairs with overall screen, cross filler to organize the pairs. Outward shield (aluminium side outside) outer sheath green LSZH
- b Compatible with PoE (Power over Ethernet) and PoEP (Power over Ethernet Plus) which allow to supply equipments (IP phone, camera, WIFI hotspot...) until 13W or 25W

**Performances**

- b Compliant to EN50173-1, ISO/IEC11801 Ed2.1, IEC 61156-5 Ed2 and Draft EN50288-10-1 standards

NEXT	Nominal	Standard IEC
500 MHz	34.8 dB	> 34.8 dB

**Use**

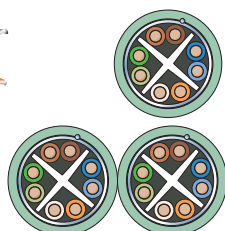
- b Cabling systems for voice, data and image in Category 6<sub>A</sub>/ Class Ea. High rates transmission: Gigabit Ethernet, 10/100 BaseT

Type	Weight	Diameter	Cond/Length	Ref. No
4 pair cable	59 kg/km	7.4 mm	500 m	VDIC13X218
			1000 m	VDIC13X318

2x4 pair cable	121 kg/km	7.4x15.8 mm	500 m	VDIC13X228
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**CL-MNC U/UTP Category 6****Specifications**

b 100 ohms, 300 MHz, 4 pairs without screen, outer sheath blue LSZH. Cross filler to organize the pairs

b Compatible with PoE (Power over Ethernet) and PoEP (Power over Ethernet Plus) which allow to supply equipments (IP phone, camera, WIFI hotspot...) until 13W or 25W

**Performances**

b Compliant to EN50173-1, ISO/IEC11801 Ed2, IEC 61156-5 and EN50288-6-1 standards

NEXT	Nominal	Standard IEC
300 MHz	44 dB	> 39.3 dB

**Use**

b Cabling systems for voice, data and image in Category 6/ Class E. High rates transmission: ATM-1200, Gigabit Ethernet, 10/100 BaseT

Type	Weight	Diameter	Cond/Length	Ref. No
4 pair cable	48 kg/km	6.3 mm	500 m	VDIC616218

P119660  
P120040

**CL-MNC U/FTP Category 6****Specifications**

b 100 ohms, 300 MHz, 4 pairs or 2x4 pairs with 4 pairs screen outer sheath blue LSZH. Outward shield (aluminium side outside)

b Compatible with PoE (Power over Ethernet) and PoEP (Power over Ethernet Plus) which allow to supply equipments (IP phone, camera, WIFI hotspot...) until 13W or 25W

**Performances**

b Compliant to EN50173-1, ISO/IEC11801 Ed2, IEC61156-5 and EN50288-5-1 standards

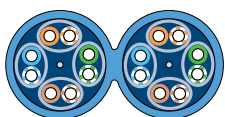
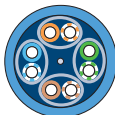
NEXT	Nominal	Standard IEC
300 MHz	44 dB	> 39.3 dB

**Use**

b Cabling systems for voice, data and image in Category 6/ Class E. High rates transmission: ATM-1200 Gigabit Ethernet, 10/100 BaseT

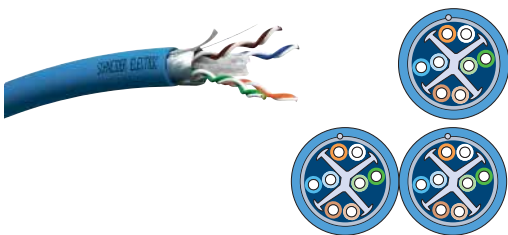
Type	Weight	Diameter	Cond/Length	Ref. No
4 pair cable	56 kg/km	7.5 mm	500 m	VDIC626218
			1000 m	VDIC626318
2x4 pair cable	113 kg/km	7x15 mm	500 m	VDIC626228

P119665  
P120021



P66871

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P10022



CL-MNC F/UTP Category 6A

**Specifications**  
 b 100 ohms, 550 MHz, AWG24, 4 pairs and 2x4 pairs with overall screen outer sheath blue LSZH. Specific cross filler to organize the pairs  
 b NVP = 70%  
 b Compatible with PoE (Power over Ethernet) and PoEP (Power over Ethernet Plus) which allow to supply equipments (IP phone, camera, WIFI hotspot...) until 13W or 25W

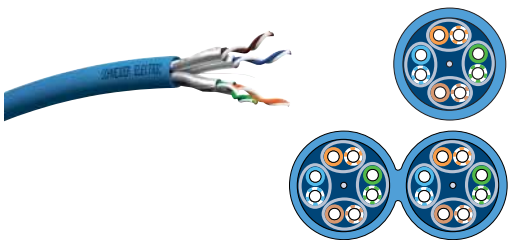
**Performances**  
 b Compliant to EN50173-1, ISO/IEC11801 Ed2.1, IEC61156-5 Ed2 and Draft EN50288-10-1 standards

NEXT	Nominal	Standard IEC
550 MHz	40 dB	> 34.8 dB

**Use**  
 b Cabling systems for voice, data and image in Category 6A. Very high rates transmission: ATM-1200, Gigabit Ethernet, 10 Gigabit Ethernet, 10/100 BaseT

Type	Weight	Diameter	Cond/Length	Ref. No
4 pair cable	53 kg/km	7.8 mm	500 m	VDIC63X218
			1000 m	VDIC63X318
2x4 pair cable	106 kg/km	7.8x16.6 mm	500 m	VDIC63X228

P119865  
P120021  
  
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CL-MNC U/FTP Category 6A

**Specifications**  
 b 100 ohms, 550 MHz, AWG23, 4 pairs and 2x4 pairs with individual screen, outer sheath blue LSZH  
 b NVP = 80%  
 b Compatible with PoE (Power over Ethernet) and PoEP (Power over Ethernet Plus) which allow to supply equipments (IP phone, camera, WIFI hotspot...) until 13W or 25W

**Performances**  
 b Compliant to EN50173-1, ISO/IEC11801 Ed2.1, IEC61156-5 Ed2 and Draft EN50288-10-1 standards

NEXT	Nominal	Standard IEC
550 MHz	67dB	> 34.8 dB

**Use**  
 b Cabling systems for voice, data and image in Category 6A. Very high rates transmission: ATM-1200, Gigabit Ethernet, 10 Gigabit Ethernet, 10/100 BaseT

Type	Weight	Diameter	Cond/Length	Ref. No
4 pair cable	57 kg/km	8.3 mm	500 m	VDIC62X218
			1000 m	VDIC62X318
2x4 pair cable	114 kg/km	8.3x17 mm	500 m	VDIC62X228

**CL-MNC F/FTP Category 7<sub>A</sub>****Specifications**

- b 100 ohms, 1000 MHz, AWG23, 4 pairs and 2x4 pairs with individual screen + overall screen, PiMF construction, element screen outwards, outer sheath blue LSZH
- b NVP = 80%
- b Compatible with PoE (Power over Ethernet) and PoEP (Power over Ethernet Plus) which allow to supply equipments (IP phone, camera, WIFI hotspot...) until 13W or 25W

**Performances**

- b Compliant to IEC61156-5 Ed2, EN50173-1, ISO/IEC11801 Ed2.1 standards

NEXT	Nominal	Standard IEC
1000 MHz	60.4 dB	> 60.4 dB

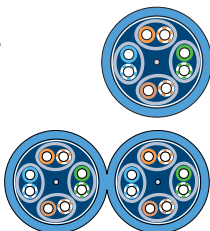
**Use**

- b Cabling systems for voice, data and image in Category 7<sup>A</sup> Class Fa. Very high rates transmission: ATM-1200, Gigabit Ethernet, 10 Gigabit Ethernet, 10/100 BaseT

Type	Weight	Diameter	Cond/Length	Ref. No
4 pair cable	57 kg/km	7.9 mm	500 m	VDIC648218
			1000 m	VDIC648318
2x4 pair cable	106 kg/km	7.9x16.8 mm	500 m	VDIC648228

P119666  
P120023

P66659

**CL-MNC S/FTP Category 7<sub>A</sub>****Specifications**

- b 100 ohms, 1000 MHz, AWG23, 4 pairs and 2x4 pairs with individual screen + braid, PiMF construction, Element screen outwards, outer sheath blue LSZH
- b NVP = 80%
- b Compatible with PoE (Power over Ethernet) and PoEP (Power over Ethernet Plus) which allow to supply equipments (IP phone, camera, WIFI hotspot...) until 13W or 25W

**Performances**

- b Compliant to IEC61156-5 Ed2, EN50173-1, ISO/IEC11801 Ed2.1 standards

NEXT	Nominal	Standard IEC
1000 MHz	60.4 dB	> 60.4 dB

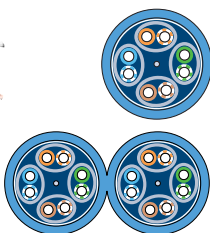
**Use**

- b Cabling systems for voice, data and image in Class Fa. Very high rates transmission: ATM-1200, Gigabit Ethernet, 10 Gigabit Ethernet, 10/100 BaseT

Type	Weight	Diameter	Cond/Length	Ref. No
4 pair cable	57 kg/km	7.9 mm	500 m	VDIC658218
			1000 m	VDIC658318
2x4 pair cable	114 kg/km	8.3x17 mm	500 m	VDIC658228

P119880  
P120023

P66659



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