

## UNITRONIC® LAN 200 F/UTP Cat.5e FLEX

**Article No.:** 2170127

Ethernet cable; Flexible, Fixed Installation; Cat.5e; F/UTP; PVC; grey



### Details

#### Benefits

- Fast information exchange through Ethernet technology.
- For the transmission of analogue and digital signals in the frequency range up to 100 MHz (Cat. 5e) or up to 600 MHz (Cat. 7).
- Meets the transmission behaviour requirements as per EIA/TIA-568 and TSB36, as well as ISO/IEC 11801/EN 50173 (link class FA).
- The flexible cable design makes it ideal for use in confined spaces.
- Easier to assemble than rigid LAN cables.
- Available with robust PVC or halogen-free LSZH outer sheath.
- Available in different shielding variants.
- Classified fire behaviour according to EU Directive 305/2011 (BauPVO/CPR) with article number selection on the LAPP website.

#### Application

- Suitable for patch cable assembly up to a cable length of 60 m.
- For cabling buildings and data centres.
- Suitable for all LAN networks and Ethernet applications up to 10GBase-T.

#### Notes

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

If applicable, the prices are solid metal prices without surcharges and VAT. Sales only to business customers.

Unless specified otherwise, the product values shown are rated values at room temperature. You can receive further values, such as tolerances, upon request if they are available and have been released for publication.

The absence of PWIS raw materials does not protect against the potential risk of contamination with substances that interfere with the paint wetting during subsequent handling of the product(s) during transport, storage or further processing after delivery.

### Remarks

### Technical Data

#### General information

Brand	UNITRONIC®
Product type	Ethernet cable
Weight	28 kg/km
Copper index	13 kg/km

#### Electrical parameters

Nominal voltage	48 V AC rms according to IEC
Rated voltage core to core	50 V AC rms according to IEC
Maximum operating voltage (not for power transmission)	125 V
test voltage conductor/conductor	0.7 kV
Test voltage core/screening	0.7 kV
Test voltage	0.7 kV
Supports Power over Ethernet	IEEE 802.3af (PoE) IEEE 802.3at (PoE+) IEEE 802.3bt (4PPoE)
Loop resistance at 20°C	290 Ω/km
Nominal surge impedance	100 Ω
Possible data transmission rates	1000 Mbit/s

**Product design**

Conductor count/size	4X2X26/7AWG
Conductor cross-section (mm <sup>2</sup> )	0.14 mm <sup>2</sup>
Nominal cross section conductor (AWG)	26 AWG
Leading conductor cross-section	AWG
Number of wires	7
Conductor material	Bare copper
Conductor design	7-wire
Including protective conductor	No
Number of cores	8
Number of pairs	4
Stranding type	Twisted-pair
additional stranding element	Drain wire
Shielded	Yes
Type of overall screen	Aluminium-laminated plastic foil
Abbreviation shielding	F/UTP
With rodent protection	No
Min. core diameter	0.95 mm
Nominal core diameter	0.96 mm
Max. diameter of core	1 mm
Min. outer diameter	5.1 mm
Nominal outer diameter	5.4 mm
Max. outer diameter	5.7 mm
Shape of cable	Round
Core insulation base material	Polyethylene
Core insulation base material, shortname	PE
Base material of outer sheath	Polyvinylchloride
Base material of outer sheath, shortname	PVC
Cable sheath colour	grey
Cable insulation RAL colour	RAL 7035
Core identification	Colours

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**Product features**

Application area	Flexible Fixed installation
For continuous flexing	No
Windable	No
Minimum bending radius, stationary	4 x outer diameter
Minimum bending radius in mm, fixed installation	22.8 mm
Minimum bending radius, occasionally moved	8 x outer diameter
Minimum bending radius in mm, occasionally flexing	45.6 mm
max. conductor temperature, fixed installation	-20 °C to 60 °C
max. conductor temperature, occasionally moved	0 °C to 50 °C
Installation temperature min.	0 °C
Installation temperature max.	50 °C
Flame-retardant	Yes
Flame retardance according to	IEC 60332-1-2
Halogenfree	No
Oil-resistant	No
PWIS-free	Yes
PWIS-free according to	VDMA 24364-B2-L
Ethernet cable category	Cat.5e
Fast Connect (FC) cable	No

**Certifications and standards**

CE marked	No
EAC-certified	Yes
EAC certification number	EAЭC N RU Д-DE.АЮ064.В.00130/20
VDE certified	No

**ETHERLINE® LAN FLEX**

Article No.	Name	Conductor count/size	Ethernet cable category	Abbreviation shielding	Halogenfree	Nominal outer diameter	Copper index	Weight
2170127	UNITRONIC® LAN 200 F/UTP Cat.5e FLEX	4X2X26/7AWG	Cat.5e	F/UTP	No	5.4 mm		28 kg/km
2170129	UNITRONIC® LAN 200 SF/UTP Cat.5e FLEX	4X2X26/7AWG	Cat.5e	SF/UTP	No	5.8 mm		36 kg/km
2170139	UNITRONIC® LAN 200 SF/UTP Cat.5eLSZH FLEX	4X2X26/7AWG	Cat.5e	SF/UTP	Yes	5.8 mm		36 kg/km
2170142	UNITRONIC® LAN 600 S/FTP Cat.7 LSZH Flex	4X2X26/7AWG	Cat.7	S/FTP	Yes	6.2 mm		40 kg/km
2170144	UNITRONIC® LAN 600 S/FTP CAT7 Y FLEX	4X2X26/7AWG	Cat.7	S/FTP	No	6.2 mm		39 kg/km
2170172	UNITRONIC® LAN 200 F/UTP Cat.5eLSZH FLEX	4X2X26/7AWG	Cat.5e	F/UTP	Yes	5.4 mm		28 kg/km

V1.1