

## Data Sheet

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**ICT cable, UTP (U/UTP) Cat.5e 350MHz, solid-core cable, standard, grey, code: K/EMITERNET-UTP5EPVC-STD.**

### Description and Technical Characteristics of the Product:

Category 5e four-pair unshielded cable is designed for ICT data transmission systems.



The cable design is based on 4 pairs of wires (the strands are made of pure copper) twisted together in such a way as to reduce near-end crosstalk. Thus, by using this cable you can achieve a connection even in the GigabitEthernet standard. This cable is available in PVC outer sleeving. The cable tested up to 350MHz.

The cable has 4 pairs of colour-coded wires

The manufacturer's designation is printed on the cable, as well as compliance with standards and a length marking: EmitterNet -HNSTD U/UTP cat.5e 350MHz PVC 4PR, Verified to EN/PL 50173 ISO/IEC 11801 EIA/TIA 568-C.2 CE Reaction to fire: Eca MM/YY xxxm

, where MM/YY is the month and year, xxx – cable length.

### Products compatible with the cable:

#### panels:

19" panel, 24xRJ45 UTP Cat.5e (1U), code: FU/PPFA652K248C5E

19" panel, 24xRJ45 UTP Cat.5e (1U) with shelf, code: EMS/PPFA652K248C5E

#### sockets:

UTP RJ 45 socket Cat. 5e keystone white, code: DC/FA-682MK-8-C5E

UTP RJ 45 socket Cat. 5e with adapter, 1-module, white, low, code: DCN/TS-868K-8-C5E

UTP RJ 45 socket Cat. 5e keystone blue (tool-free), code: DCN/FA-S682MK-8-C5E

UTP 1xRJ45 surface-mount socket Cat. 5e, code: DC/FA-851AK-18-C5E

UTP 2xRJ45 surface-mount socket Cat. 5e, code: DC/FA-851AK-28-C5E

### Note:

**The cable is intended for use with Emitter Net standard series components!**

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### Technical parameters:

Outer diameter of the cable	4.7mm ± 0.5mm
Diameter of a single strand	0.5mm ± 0.05mm
Outer insulation of the cable	PCV
Colour of external insulation	Grey
Strand insulation	PE
Strands	Single-wire copper
Wave impedance	100Ω +/- 15Ω for 1–100MHz 100Ω +/- 20Ω for 101–250MHz
Resistance of any pair for DC voltage	97.5Ω/km
NVP	69%
Insulation resistance of any strand (min)	150MΩ/km
Mutual capacitance (pair-to-pair for f=1kHz)	1.6nF/km
Bending radius when laying	40mm
Bending radius during operation	20mm
Operating temperature	-20°C - +70 °C
Temperature during laying	0°C - +50 °C
Weight	28.2 kg/km
Packaging	cardboard box, 305m

### Frequency

(MHz)	10	16	31.25	62.5	100	155	250	350	
Loss (max)	(dB/100m)	6.6	8.2	11.7	17.0	22.0	28.1	36.7	44.6
Next (min)	(dB)	50.3	47.2	42.9	38.4	35.3	32.8	29.1	27.1
RL (min)	(dB)	25	25	23.6	21.5	20.1	18.8	17.3	16.3

The cable meets the requirements of PN-EN50575.

Class of reaction to fire (flammability class): Eca\*

\*according to tests performed by VDE Testing and Certification Institute according to EN-13501-6/ EN50575 and EN 60332-1-2 standards

DECLARATIONS: CE-Declaration of Conformity, Declaration of Performance (DoP) No 007/5020671/4-1

Product warranty 5 years from the date of purchase. Designed for installation with EmitterNet standard series products. For installations with an extended 25-year System Warranty, we recommend our product: K/EMITERNET-UTP5EPVC Emitter Net UTP Cat.5e, solid-core cable, 4 x 2 x 24 AWG

We have made every effort to ensure that the information presented is accurate and complete. However, we are not responsible for the accuracy and completeness of the data and, in particular, we cannot guarantee that this specification does not contain errors or mistakes. The information contained in this specification may be changed at any time without notice.