

## Data Sheet

### ICT cable, FTP (F/UTP) Cat.6 450MHz, wire 4x2x23AWG PVC code: K/EMITERNET-FTP6PVC-STD.

#### Description and Technical Characteristics of the Product:

Category 6 four-pair shielded cable is designed for broadband 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. In addition, the pairs are protected with an aluminium foil shield. This cable is available in PVC outer sleeving. The cable has 4 pairs of colour-coded wires. The cable tested up to a frequency of 450MHz.

The manufacturer's designation is printed on the cable, as well as compliance with standards and a length marking: EmitterNet -HNSTD F/UTP cat.6 450MHz PVC 23AWG x

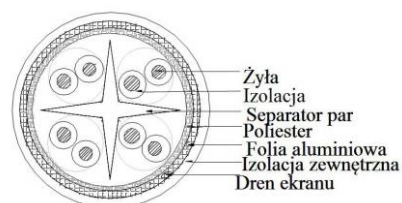
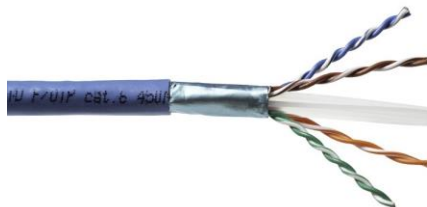
4PR, Verified to EN/PL 50173 ISO/IEC 11801 EIA/TIA 568-C.2 CE Reaction to fire:

Eca MM/YY xxxm, where MM/YY is the month and year, xxx – cable length. **NOTE:** the

cable **is not** dedicated to certified networks; For installations with an extended 25-year

System Warranty, we recommend our product: K/EMITERNET-FTP6LS0H. ICT cable,

FTP (F/UTP) Cat.6 450 MHz LS0H, wire 4x2x23AWG



#### Products compatible with the cable:

##### panels:

19" panel, 24xRJ45 STP Cat. 6 (1U) blue, with shelf, code: DCN/PPFA674EKS248C6

19" panel 48xRJ45 STP Cat. 6 (1U) blue, with shelf, code: DCN/3012IPRL48S-C6-1U

19" panel, 24xRJ45 STP Cat. 6 (1U) with shelf, code: EMS/PPFA674EKS248C6

##### sockets:

STP RJ45 Cat.6 keystone blue, code: DCN/FA-1090SF-8-C6

STP RJ45 Cat.6 keystone blue, tool-free, slim, code: EM/SQKSS-C6

#### Technical parameters:

Outer diameter of the cable	7.5mm ± 0.5mm
Diameter of a single strand	0.57mm ± 0.02mm; 23 AWG
Outer insulation of the cable	PVC
Colour of external insulation	Blue (light)
Strand insulation	PE
Strands	single-wire copper
Wave impedance	100Ω +/- 15Ω for 1–100MHz 100Ω +/- 22Ω for 100–450MHz
Resistance of any pair for DC voltage (20°C)	95Ω/km
NVP	70.00%
Insulation resistance of any strand (min)	150MΩ/km
Mutual capacitance of any pair	330pF/100m
Bending radius when laying	80mm
Bending radius during operation	50mm
Operating temperature	-40°C - +70 °C
Temperature during laying	0°C - +50 °C
Weight	55.2 kg/km
Packaging	500m drum

**Data Sheet**

<b>Parameters</b>				
<b>Dynamic parameters:</b>				
<i>Frequency</i>	<i>Return Loss</i>	<i>Attenuation</i>	<i>NEXT</i>	<i>ACR</i>
(MHz)	(dB)	(dB/100m)	(dB)	(dB)
1	20.0	2.0	74.3	72.3
4	23.0	3.8	66.3	61.5
8	24.5	5.3	61.8	55.4
10	25.0	6.0	60.3	53.3
16	25.0	7.6	57.2	48.7
20	25.0	8.5	55.8	46.3
25	24.3	9.5	54.3	43.8
31.25	23.6	10.7	52.9	41.2
62.5	21.5	15.4	48.4	32.0
100	20.1	19.8	45.3	24.5
150	18.9	24.7	42.7	16.9
200	18	29.0	40.8	10.8
250	17.3	32.8	39.3	5.5
350	16.3	39.7	37.2	--
450	15.7	45.9	35.6	--
<i>Frequency</i>	<i>PSNEXT</i>	<i>ELFEXT</i>	<i>PSELFEXT</i>	<i>Delay</i>
(MHz)	(dB)	(dB/100m)	(dB/100m)	(ns/100m)
1	72.3	67.8	64.8	570.0
4	63.3	56	53	552.0
8	58.8	49.9	46.9	546.7
10	57.3	48	45	545.4
16	54.2	43.9	40.9	543.0
20	52.8	42	39	542.0
25	51.3	40	37	541.2
31.25	49.9	38.1	35.1	540.4
62.5	45.4	32.1	29.1	538.6
100	42.3	28	25	537.6
150	39.7	24.5	21.5	536.9
200	37.8	22	19	536.5
250	36.3	20	17	536.3
350	34.2	--	--	535.9
450	32.6	--	--	535.7

## **Data Sheet**

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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. 008/5020671/2-1

Product warranty 5 years from the date of purchase. NOTE: the cable is not dedicated to certified networks; For installations with an extended 25-year System Warranty, we recommend our product: K/EMITERNET-FTP6LS0H. ICT cable, FTP (F/UTP) Cat.6 450 MHz LS0H, wire 4x2x23AWG

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.