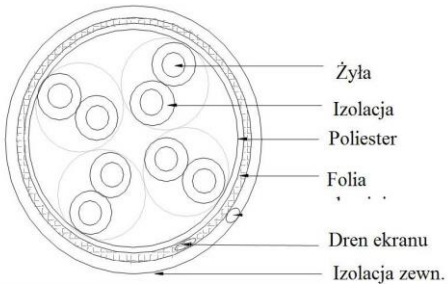
Data Sheet

ICT cable, FTP (F/UTP) Cat.5e 350MHz PVC, wire 4x2x24AWG code: K/EMITERNET-FTP5ePVC.

Description and Technical Characteristics of the Product:

Category 5e four-pair shielded 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. In addition, the pairs are protected with an aluminium foil shield. As a result, this cable can be used in places where it is exposed to both external eavesdropping and electromagnetic interference from, among others, high-voltage light fixtures, electric motors, etc. 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 350MHz.

The manufacturer's designation is printed on the cable, as well as compliance with standards and a length marking: EmiterNet -HN F/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.

Technical parameters:

Outer diameter of the cable	6.0mm
Diameter of a single strand	0.50mm ± 0.02mm; 24 AWG
Outer insulation of the cable	PCV
Colour of external insulation	white
Strand insulation	PE
Strands	single-wire copper
Wave impedance	100Ω +/- 15Ω for 1–100MHz 100Ω +/- 20Ω for 101–350MHz
Resistance of any pair for DC voltage	95Ω/km
NVP	69.00%
Insulation resistance of any strand (min)	150MΩ/km
Mutual capacitance of any pair (f=1kHz)	330pF/100m
Bending radius when laying	50mm
Bending radius during operation	25mm
Operating temperature	-40ºC - +70 ºC
Temperature during laying	0ºC - +50 ºC
Weight	38 kg/km
Packaging	cardboard box, 305m

Data Sheet

Parameters				
Dynamic parameters:				
Frequency	***Return Loss***	***Attenuation***	***NEXT***	***ACR***
(MHz)	(dB)	(dB/100m)	(dB)	(dB)
0.772	19.4	1.8	67.0	65
1	20.0	2.0	65.3	63
4	23.0	4.1	56.3	52
8	24.5	5.8	51.8	46
10	25.0	6.5	50.3	44
16	25.0	8.2	47.3	39
20	25.0	9.3	45.8	37
25	24.3	10.4	44.3	34
31.25	23.6	11.7	42.9	31
62.5	21.5	17.0	38.4	21
100	20.1	22.0	35.3	13
250	17.3	36.4	29.4	--
350	16.3	44.5	27.2	--
Frequency	***PSNEXT***	***ELFEXT***	***PSELFEXT***	***Delay***
(MHz)	(dB)	(dB/100m)	(dB/100m)	(ns/100m)
0.772	64.0	66.0	63.0	575.0
1	62.3	63.8	60.8	570.0
4	53.3	51.7	48.7	552.0
8	48.8	45.7	42.7	546.7
10	47.3	43.8	40.8	545.4
16	44.3	39.7	36.7	543.0
20	42.8	37.7	34.7	542.0
25	41.3	35.8	32.8	541.2
31.25	39.9	33.9	30.9	540.4
62.5	35.4	27.8	24.8	538.6
100	32.3	23.8	20.8	537.6
250	26.4	--	--	536.2
350	24.2	--	--	535.9

Standards compliance: EIA/TIA 568-C.2, EIA/TIA 568-B.2, ISO/IEC 11801, PN-EN50173, IEC61156-5, EN50288-6-1, IEC60332-1

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. 005/5020671/1-1

Data Sheet

Product warranty 5 years from the date of purchase. Designed for installation with EmiterNet certified or standard series system. The possibility of obtaining a 25-year System Warranty (after meeting the conditions specified in the EmiterNet Structural Cabling System Warranty Program).

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.