

## Data Sheet

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**Outdoor cable, UTP (U/UTP) Cat.5e PE+PVC, 4x2x24AWG,  
code: K/EMITERNET-UTP5EOUTDOOR.**



### 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, using this cable, it is possible to achieve a GigabitEthernet connection.

Cable with double insulation, inner insulation made of PVC and PE polyethylene outer sleeving.

Thanks to the use of double insulation including a polyethylene sleeving, the cable can be laid directly in the ground.

The cable has 4 pairs of colour-coded wires.

The manufacturer's designation is printed on the cable, as well as standards compliance and length marker (EmiterNet -HN UTP Cat.5e PE+PVC 24AWG x 4PR double jacket outdoor, Verified to EN/PL 50173 ISO/IEC 11801 EIA/TIA 568-C.2 MM/YY xxxxm).

### Technical parameters:

Outer diameter of the cable	6.6 mm
Diameter of a single strand	0.5mm; 24 AWG
Outer insulation of the cable	PE+PCV
Colour of external insulation	Black
Strand insulation	PE
Strands	single-wire copper
Wave impedance	100Ω +/- 15Ω for 1–100MHz
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	70mm
Bending radius during operation	35mm
Operating temperature	-40°C - +70 °C
Temperature during laying	0°C - +50 °C
Weight	43.6 kg/km
Packaging	305m 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)
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
<i>Frequency</i>	<i>PSNEXT</i>	<i>ELFEXT</i>	<i>PSELFEXT</i>	<i>Delay</i>
(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

**Standards compliance:** EIA/TIA 568-C.2, EIA/TIA 568-B.2, ISO/IEC 11801, PN-EN50173

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