

Data Sheet

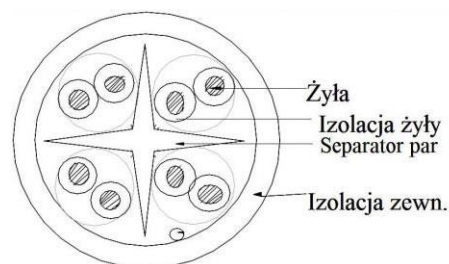
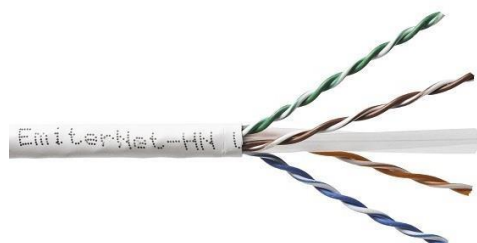
ICT cable, UTP (U/UTP) Cat.6 450 MHz LS0H, wire 4x2x23AWG code: K/EMITERNET-UTP6LS0H.

Description and Technical Characteristics of the Product:

Category 6 four-pair unshielded cable is designed for broadband data transmission systems.

The cable design is based on a central separator that separates the individual pairs to reduce near-end crosstalk. The separator is made of PVC and takes the form of a cross. This cable is available in LS0H outer sleeving - halogen-free cable. The cable has 4 pairs of wires (the strands are made of pure copper) which are colour-coded. 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 -HN U/UTP cat.6 450MHz LS0H 23AWG x 4PR, Verified to EN/PL 50173 ISO/IEC 11801 EIA/TIA 568-C.2 CE Reaction to fire: Dca-s1a-d0-a1. MM/YY xxxm, where MM/YY is the month and year, xxx – cable length.



Technical parameters:

Outer diameter of the cable	6.5mm
Diameter of a single strand	0.57mm ± 0.03mm; 23 AWG
Outer insulation of the cable	LS0H
Colour of external insulation	white
Strand insulation	PE
Strands	single-wire copper
Wave impedance	100Ω +/- 15Ω for 1–100MHz 100Ω +/- 20Ω for 100–450MHz
Resistance of any pair for DC voltage (20°C)	90Ω/km
NVP	69.00%
Insulation resistance of any strand (min)	150MΩ/km
Mutual capacitance of any pair (f=1kHz)	1500pF/100m
Bending radius when laying	65mm
Bending radius during operation	35mm
Operating temperature	-20°C - +70 °C
Temperature during laying	0°C - +50 °C
Weight	44.2 kg/km
Packaging	cardboard box, 305m

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PARAMETERS				
Dynamic parameters:				
<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
4	23.0	3.8	65.3	61
8	24.5	5.3	60.8	55
10	25.0	6.0	59.3	53
16	25.0	7.6	56.2	49
20	25.0	8.5	54.8	46
25	24.3	9.5	53.3	44
31.25	23.6	10.7	51.9	41
62.5	21.5	15.4	47.4	32
100	20.1	19.8	44.3	25
150	18.9	24.7	41.7	16.9
200	18	29.0	39.8	10.8
250	17.3	32.8	38.3	5.5
350	16.3	39.7	36.2	--
450	15.7	45.9	34.6	--
<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	55.8	52.8	552.0
8	58.8	49.7	46.7	546.7
10	57.3	47.8	44.8	545.4
16	54.2	43.7	40.7	543.0
20	52.8	41.8	38.8	542.0
25	51.3	39.8	36.8	541.2
31.25	49.9	37.9	34.9	540.4
62.5	45.4	31.9	28.9	538.6
100	42.3	27.8	24.8	537.6
150	39.7	24.3	21.3	536.9
200	37.8	21.8	18.8	536.5
250	36.3	19.8	16.8	536.3
350	34.2	--	--	535.9
450	32.6	--	--	535.7

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Standards compliance: EIA/TIA 568-C.2, EIA/TIA 568-B.2, ISO/IEC 11801, EN50173, IEC61156-5, EN50288-6-1, IEC60332-1, IEC 60754-2, IEC61034 (LS0H)

The cable meets the requirements of PN-EN50575.

Class of reaction to fire (flammability class): Dca-s1 a-d0-a1*

*according to tests performed by VDE Testing and Certification Institute according to the following standards: EN-13501-6/ EN50575 and EN 60332-1-2, EN 50399 , EN61034-2, EN 60754-2.

DECLARATIONS: CE-Declaration of Conformity, Declaration of Performance (DoP) No. 004/5020671/24-2.