

Data Sheet

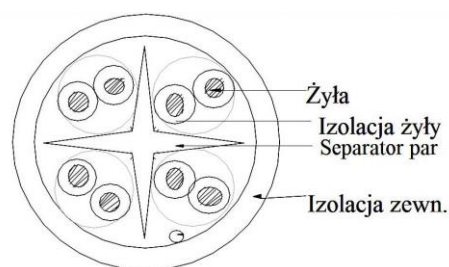
Emiter Net U/UTP ICT cable Cat. 6 450MHz B2ca LSOH, solid-core cable 4 x 2 x 23 AWG, code: K/EMITERNET-UTP6LS0HB2CA.

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 LSOH outer sleeving - halogen-free cable in CPR flammability class B2ca - s1a-d0-a1. 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 EmiterNet -HN U/UTP Cat.6 B2ca 450MHz LSOH 23AWG x 4PR, Verified to EN/PL 50173 ISO/IEC 11801 EIA/TIA 568-C.2 CE Reaction to fire: B2ca,s1a,d0,a1 MM/YY xxxm, where MM/YY is the month and year, xxx – cable length.



Technical parameters:

Outer diameter of the cable	6.3mm
Diameter of a single strand	0.57mm ± 0.03mm; 23 AWG
Outer insulation of the cable	LS0H-FR / LSZH-FR
Class of reaction to fire (CPR)	B2ca-s1a-d0-a1
Colour of external insulation	pastel violet
Strand insulation	HDPE
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)	max.95Ω/km
NVP	69.00%
Insulation resistance of any pair (min)	min. 5000MΩ/km
Mutual capacity of any pair (f=800Hz)	max. 5.6nF/100m
Unbalanced capacity	max. 330 pF/100m
Dielectric strength	DC 1kV/1min. without ground faults
Bending radius when laying	63mm
Bending radius during operation	35mm
Operating temperature	-20°C - +60 °C
Temperature during laying	0°C - +50 °C
Weight	46 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	75.3	72
4	23.0	3.8	67.3	61
8	24.5	5.3	62.8	55
10	25.0	6.0	61.3	53
16	25.0	7.6	58.2	49
20	25.0	8.5	56.8	46
25	24.3	9.5	55.3	44
31.25	23.6	10.7	53.9	41
62.5	21.5	15.4	49.4	32
100	20.1	19.8	46.3	25
150	18.9	24.7	48.7	16.9
200	18	29.0	41.8	10.8
250	17.3	32.8	40.3	5.5
350	16.3	39.7	38.2	--
450	15.7	45.9	36.6	--
<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	56.0	53.0	552.0
8	58.8	49.9	46.9	546.7
10	57.3	48.00	45.0	545.4
16	54.2	43.9	40.9	543.0
20	52.8	42.0	39.0	542.0
25	51.3	40.0	37.0	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	28.0	25.0	537.6
150	39.7	24.5	21.5	536.9
200	37.8	22.0	19.8	536.5
250	36.3	20.0	17.0	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 568-2.D, ISO/IEC 11801, EN50173, IEC61156-5, EN50288-6-1, IEC60332-1, IEC 60754-2, IEC61034 (LS0H), RoHS 2011/65/EU, REACH EC 1907/2006

The cable meets the requirements of PN-EN50575.

Class of reaction to fire (flammability class): B2ca-s1a-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)

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