

## Data Sheet

### ICT cable, S/FTP Cat.7 1000 MHz LSZH-FR, wire 4x2x23AWG code: K/EMITERNET-SFTP7LS0H.

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

Category 7 four-pair shielded cable is designed for broadband data transmission systems.

The design of the cable is based on double shielding - SFTP ie. the pairs are shielded with foil, and the entire cable is additionally shielded with metal mesh, in order to reduce near-end crosstalk and shield it from external interference. This shield design eliminates the possibility of uncontrolled interference between pairs in the cable, which can be the case if each pair is not shielded separately. This cable is available with LSZH-FR outer sleeving (LS0H-FR, "low smoke zero halogen flame retardant") - halogen-free cable. The cable tested up to 1000 MHz.



The cable has 4 pairs of wires (the strands are made of pure copper) which are colour-coded. The manufacturer's designation is printed on the cable, as well as compliance with standards and a length marking: EmitterNet -HN S/FTP cat.7 1000MHz LSZH-FR 23AWG x 4PR, Verified to EN/PL 50173 ISO/IEC 11801 EIA/TIA 568-C.2 CE Reaction to fire: Dca-s1a-d2-a1 MM/YY xxxm, where MM/YY is the month and year, xxx – cable length.

#### Technical parameters:

Outer diameter of the cable	7.5mm +/- 0.2mm
Diameter of a single strand	0.60mm ± 0.03mm; 23 AWG
Outer insulation of the cable	LSZH-FR (LS0H-FR)
Colour of external insulation	orange
Strand insulation	PE
Strands	single-wire copper
Wave impedance	100Ω +/- 15Ω for 1–100MHz 100Ω +/- 18Ω for 100–250MHz 100Ω +/- 22Ω for 250–1000MHz
Resistance of any pair for DC voltage (20°C)	90Ω/km
NVP	74.00%
Insulation resistance of any strand (min)	165MΩ/km
Mutual capacitance of any pair (f=1kHz)	160pF/100m
Bending radius when laying	150mm
Bending radius during operation	75mm
Operating temperature	-20°C - +60 °C
Temperature during laying	0°C - +50 °C
Weight	62 kg/km
Packaging	drum, 500m

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<i>Frequency</i>	<i>(MHz)</i>	<b>4</b>	<b>10</b>	<b>20</b>	<b>62.5</b>	<b>100</b>	<b>155</b>	<b>200</b>	<b>300</b>	<b>600</b>	<b>700</b>	<b>900</b>	<b>1000</b>
<b>Loss</b>	<i>(dB/ 100m)</i>	3.5	5.4	7.6	13.7	17.5	22.1	25.3	31.5	46.3	52.6	58.4	61.9
<b>RL</b>	<i>(dB)</i>	23.0	25.0	25.0	21.5	20.1	18.8	18.0	17.3	17.3	14	13.4	13.3
<b>NEXT</b>	<i>(dB)</i>	78	78	78	78	76	76	71	69	64	59.3	58.1	57.4
<b>ACR</b>	<i>(dB)</i>	74.5	72.6	70.4	64.3	58.5	53.9	45.7	37.5	17.7	--	--	--
<b>PSNEXT</b>	<i>(dB)</i>	75	75	75	75	73	73	68	66	61	57.1	55.1	54.4
<b>ELFEXT</b>	<i>(dB/ 100m)</i>	82.0	74.0	68.0	58.1	54.0	50.2	48.0	44.5	38.4	36.8	35.2	34.3
<b>Delay</b>	<i>(ns/ 100m)</i>	518	511	508	505	504	503	503	502	501	501	501	500

Standards compliance: EIA/TIA 568-C.2, EIA/TIA 568-B.2, ISO/IEC 11801, PN-EN50173, IEC61156-5, EN50288-4-1, IEC60332-1, IEC 60754-2

The cable meets the requirements of PN-EN50575.

Class of reaction to fire (flammability class): Dca-s1a-d2-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. 003/5020671/6-1

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.