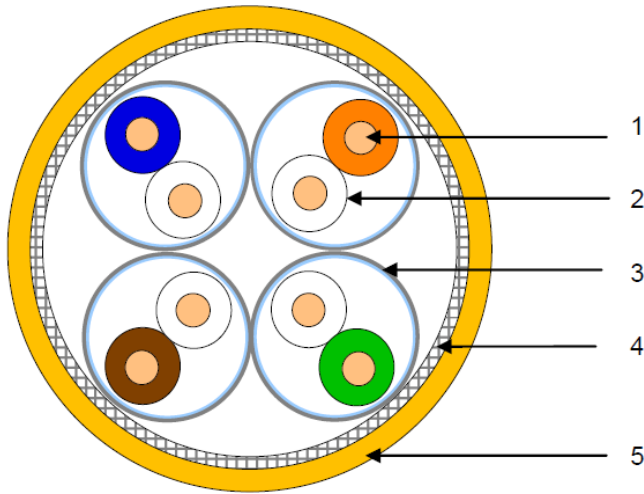


## Installation cable Cat.7 S/FTP 4PR LSFRZH CPR Class D<sub>CA</sub> 900 MHz



### CONSTRUCTION:

- 1 – Conductor**  
Material: solid bare annealed copper.  
Nominal diameter: 23 AWG.
- 2 – Insulation**  
Material: Foam skin polyethylene.  
Nominal diameter: 1.3 mm.
- stranded wires**  
Pair: 2, twisted insulated conductors.  
Number of pairs: 4, all twisted together.
- 3 – Individual screen:** aluminum / polyester tape.
- 4– Screen:** Tinned copper braid
- 5 – Outer sheath**  
Material: LSFRZH.  
Color: orange (RAL 2003)

### STANDARDS

ISO/IEC 11801  
EN 50173  
IEC 61156-5  
EN 50288-4-1  
IEC 60332-3-24  
IEC 60754-1/2  
IEC 61034-1/2

### SUPPORTED APPLICATIONS

10BASE-T (IEEE 802.3)  
100BASE-T (IEEE 802.3)  
1000BASE-T (Gigabit Ethernet)  
10GBASE-T (10Gigabit Ethernet)  
Power Over Ethernet

### ORDERING

**XR100F147** – Reel 1000m

### MECHANICAL CHARACTERISTICS

Min. bending radius in operation	30	mm
Min. bending radius during installation	60	mm
Max. pulling tension	120	N
Nominal weight	61	kg/km
Nom. outer diameter	7.6	mm
Nom. wire diameter	23	AWG

### ELECTRICAL CHARACTERISTICS @ 20°C

Max. DC Resistance:	95	Ω/km
Nom. Mutual Capacity	45	pF/m
NVP:	80	%
Mean input Impedance:	100 ± 5 @ 100MHz	Ω
Delay Skew:	5	ns/100m
Segregation class:	d	-
Coupling attenuation:	Min.80	dB

### TEMPERATURE CHARACTERISTICS

Storage Temperature	-20 to +70	°C
Operating Temperature	-20 to +70	°C
During installation	0 to +50	°C

### ENVIRONMENTAL CHARACTERISTICS

Jacket material	LSFRZH
Flammability	Acc. to IEC 60332-3-24, IEC 60754-1/2; IEC 61034-1/2 EN50575; D <sub>CA</sub> -s2,d1,a1; DoP 0012
Calorific value	0,62 MJ/m

#### Important notice

Buyer and/or user of this product has to make sure before using this product that it is suitable for the intended use. All questions of liability relating to this product are subject – in accordance with the prevailing – to the Term of Sale of the selling Fibrain subsidiary.

## TRANSMISSION CHARACTERISTICS

Frequency MHz	Attenuation dB/100m (max.)	NEXT dB (min.)	PS-NEXT dB (min.)	ACR-F dB/100m (min.)	PS-ACR-F dB/100m (min.)	RL dB/100m (min.)
4	3,6	100	100	100	98,2	33,0
100	18,1	97,4	94,4	94,0	91,0	30,1
155	22,7	94,5	91,5	91,7	88,7	28,8
200	25,8	92,9	89,9	90,1	87,1	28,0
240	28,4	91,7	88,7	88,5	85,8	27,4
250	29,0	91,4	88,4	85,7	85,5	27,3
350	34,6	89,2	86,2	85,7	82,7	26,3
500	41,8	86,9	83,9	82,1	79,1	25,3
550	43,9	86,3	83,3	81,0	78,0	25,3
580	45,2	85,9	82,9	80,4	77,4	25,3
590	45,6	85,8	82,8	80,2	77,2	25,3
600	46,0	85,7	82,7	80,0	77,0	25,3
*700	50,0	84,4	81,4	78,0	75,0	24,6
*800	53,7	83,2	80,2	76,2	73,2	24,1
*900	57,2	82,2	79,2	74,4	71,4	23,5

*\*Informative only*

## CABLE MARKING

*FIBRAINDATA CABLE CAT7 S/FTP 4PR 24 AWG 900MHZ NVP 80% LSFRZH CPR CLASS Dca ISO/IEC11801 EN50173 ANSI/TIA/568-C.2 JJJJ X9U100F147 OFRRRRRR . XXXXX M*

Where

**JJJJ:** production year  
**OFRRRRRR:** manufacturer order  
**XXXXX:** length

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