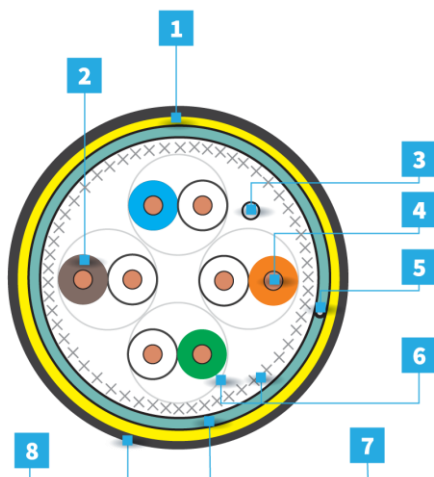


Outdoor Installation cable Cat.6A S/FTP 4PR PE+LSFRZH 650 MHz



CONSTRUCTION:

1 – Hydrofobic gel

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 – Drain wire

4 – Conductor

Material:

solid bare annealed copper.

Nominal diameter:

23 AWG.

5 – Rip cord

6 – S/FTP screen:

Tinned copper braid/aluminum tape.

7 – Inner sheath

Material:

LSFRZH.

Color:

turquoise (RAL 6027)

8 – Outer sheath

Material:

PE.

Color:

black (RAL 9005)

STANDARDS

ISO/IEC 11801
EN 50173
IEC 61156-5
EN 50288-3-1
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)
PoE/PoE+

ORDERING

XR100.197 – reel 1000m

MECHANICAL CHARACTERISTICS

Min. bending radius in operation	30	mm
Min. bending radius during installation	60	mm
Max. pulling tension	110	N
Nominal weight	70	kg/km
Nom. outer diameter	9.9	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

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.

ENVIRONMENTAL CHARACTERISTICS

Outer jacket material	PE
Inner jacket material	LSFRZH
Flammability (LSFRZH)	Acc. to IEC 60332-3-24, IEC 60754-1/2; IEC 61034-1/2
Calorific value (LSFRZH)	0,62 MJ/m

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	91,2	88,2	28,0
16	7,2	100	100	89,4	86,4	30,0
20	8,0	100	100	89,0	86,0	30,0
31,25	10,0	100	100	88,0	85,0	28,6
62,5	14,2	100	97,5	85,9	82,9	26,5
100	18,1	97,4	94,4	84,0	81,0	25,1
155	22,7	94,5	91,5	81,7	78,7	23,8
200	25,8	92,9	89,9	80,1	77,1	23,0
240	29	91,7	88,7	78,5	75,8	22,4
250	31,9	91,4	88,4	75,7	75,5	22,3
350	34,6	89,2	86,2	75,7	72,7	22,3
500	41,8	86,9	83,9	72,1	69,1	22,3

CABLE MARKING

FIBRAIN DATA CABLE S/FTP 4PR 23 AWG CAT6A 650MHZ PE LSFRZH IEC60332-3-24 ISO/IEC11801 AND EN50173 AND ANSI/TIA/EIA568-C.2 **JJJJ** XR100.197 **OFRRRRRR** . **XXXXX** M

Where

JJJJ: production year
OFRRRRRR: manufacturer order
XXXXX: length

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.