

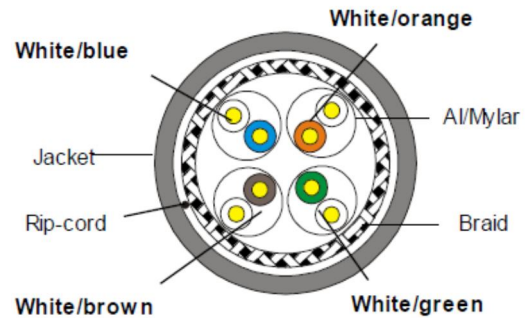
Copper cable

Cat 7A S/FTP LSFH Cable

Description

The Huber + Suhner Category 7A shielded cable provides a high quality media for the transmission up to 10G BASE-T applications, with the added benefits of a small diameter and flexible cable design.

- Compliant with Category 7A/Class FA cable requirements in following standards
 - ISO/IEC 11801
 - EIA/TIA-568-C.2
 - EN 50173-1
 - IEC 61156-5
 - EN 50288-9-1
- Suitable for PoE/PoE+ applications
- Low flame-spread LSFH™ jacket material, compliant with following standards
 - IEC 60332-3
 - IEC 60754-2
 - IEC 61034
- Consistent performance with margin above standards requirements



Technical data

Construction

Description	Values	Comment
Conductor	Copper, 23 AWG	
Pairs	4 x 2 pairs	
Sheath material	FR-LSFH	
Sheath colour	Orange RAL 2003	
Cable Diameter	7.6 mm	

Mechanical and environmental data

Characteristics	Values	Tested acc. to	Comment
Bending Radius (during installation)	8 x Outer diameter		
Bending Radius (installed)	4 x Outer diameter		
Weight	54 Kg/km		
Maximum Pulling Force	100 N		
Temperature Range (during Installation)	0°C to + 50°C		
Temperature Range (during operation)	-20°C to + 60°C		
Reaction to fire	B2ca-s1a,d1,a1	EN 50575	
Compliant with RoHS and REACH	Yes		

Electrical data

Description	Values	Comment
Characteristic impedance (Ω) 1.0-250.0MHz,	100±15	(at 20□)
Characteristic impedance (Ω) 100.0-250.0MHz,	100±18	(at 20□)
Characteristic impedance (Ω) 250.0-1000.0MHz,	100±25	(at 20□)
1.0-250.0MHz, Delay Shew 20□(ns/100m)	≤25	(at 20□)
Velocity of Propagation (%)	74	(at 20□)
DC Resistance 20□(Ω/100m) max	9.38	(at 20□)
DC Conductor Resistance Unbalance (%)max	2.0	(at 20□)

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Transmission data

Frequency (MHZ)	Return Loss (dB)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	DELAY (ns)
1	20.0	-	78.0	75.0	78.0	75.0	570.00
4	23.0	3.7	78.0	75.0	78.0	75.0	552.00
8	24.5	5.2	78.0	75.0	75.9	72.9	546.70
10	25.0	5.9	78.0	75.0	74.0	71.0	545.40
16	25.0	7.4	78.0	75.0	69.9	66.9	543.00
20	25.0	8.3	78.0	75.0	68.0	65.0	542.00
25	24.3	9.3	78.0	75.0	66.0	63.0	541.20
31.25	23.6	10.4	78.0	75.0	64.1	61.1	540.40
62.5	21.5	14.9	75.5	72.5	58.1	55.1	538.60
100	20.1	19.0	72.4	69.4	54.0	51.0	537.60
150	18.9	23.6	69.8	66.8	50.2	47.2	536.90
200	18.0	27.5	67.9	64.9	48.0	45.0	536.50
250	17.3	31.0	66.4	63.4	46.0	43.0	536.30
300	17.3	34.2	65.2	62.2	44.5	41.5	536.10
600	17.3	50.1	60.7	57.7	38.4	35.4	535.50
700	14.2	54.6	59.7	56.7	37.1	34.1	535.40
1000	13.1	66.9	57.3	54.4	34.0	31.0	535.10

Ordering information

Description	Item number	Comment
Category 7A copper Cable, S/FTP, 4 Pairs, 23AWG,Solid conductor , LSFH-B2ca jacket, blue,500m/drum	85091587	

Related documents

Description	Document number
None	

Additional information

Description	
Microsite for Data Center solution	datacenter.hubersuhner.com