

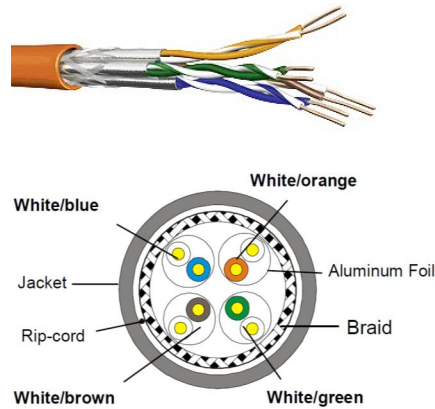
Copper cable

Cat 7A S/FTP LSFH Cable

Description

The Huber + Suhrner Category 7A shielded cable provides a high quality shielded media for the transmission of all standard Ethernet applications, specified and compliant to category 7A component specification at 1000 MHz.

- Category 7A/Class FA compliant
- Suitable for PoE/PoE+ applications
- Low flame-spread LSFH™ jacket material
- Overall shielded and pairs individually shielded.
- Compliant to
 - ISO/IEC 11801 Ed 2.0
 - EIA/TIA-568-C.2
 - EN 50173-1
 - IEC 61156-5
 - EN 50288-9-1
 - IEC 60332-1
 - IEC 60754-2
 - IEC 61034
- Consistent performance
- Margin above standards requirements



Technical data

Construction

Description	Values	Comment
Pairs	4 x 2 x 23 AWG	
Sheath material	LSFH	
Conductor material	Copper	

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		
Cable Diameter	7.8 mm		
Weight	63.7 Kg/km		
Maximum Pulling Force	100 N		
Colour	Orange RAL 2003		
Temperature Range (during Installation)	0°C to + 50°C		
Temperature Range (during operation)	-20°C to + 60°C		
Reaction to fire	Eca	EN 50575	
Compliant with RoHS and REACH	Yes		

Electrical data

Description	Values	Comment
Impedance(Ω)	(1-100MHz) 100±15Ω (100-250MHz) 100±18Ω (250-600MHz) 100±25Ω	(at 20□)
Delay Shew (ns/100m)	≤25	
Velocity of Propagation (%)	74	(at 20□)
unbalanced-to-ground capacitance (pf/100m) max	330	(at 20□)
DC Resistance (Ω/100m) max	9.5	(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	2.0	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	16.8	34.2	65.2	62.2	44.5	41.5	536.10
600	14.7	50.1	60.7	57.7	38.4	35.4	535.50
1000	13.1	66.9	57.4	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 jacket, orange,500m/drum	85066253	

Related documents

Description	Document number
None	

Additional information

Description	
Microsite for Data Center solution	datacenter.hubersuhner.com