

ADTRONICS® AD-C4C6ASF-650 MHz

Ethernet Cable CAT6A S/FTP 4P,LSZH, 650MHz



Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)

IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T; 10GBase-T

IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Confirming to European regulation "CPR" EN 50575

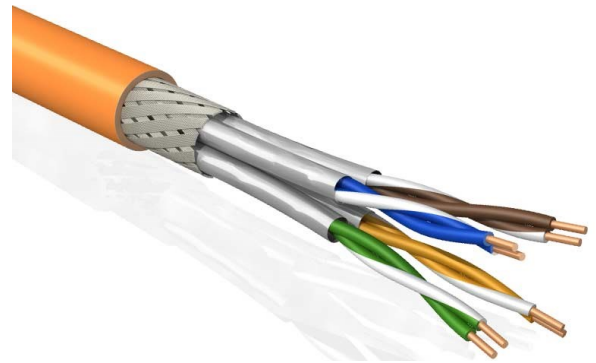
Standards

Class E compliant ANSI/TIA/EIA

IEC 61156-5 / EN 50288-5-1 / EN 50174 / EN 50173-1

ISO/IEC 11801:2011 / EIA/TIA 568-A/B2.10/C2/2-D

RoHS 2002/95/EC



Fire Rating LSZH

LSFRZH; LSZH; LSHF

IEC 60332-3-24; IEC 60754-2; IEC 61034

EN50575; Cca s1a-d1-a1 ; DOP C6573

Construction

Conductor	stranded copper wire AWG23
Insulation	Polyethylene with additive $\leq \varnothing 1.00$ mm
Protection class IP	IP 20
Twisting	2 wires to the pair
Cable lay up	4 paires to the core
Pair screen	Alu / polyester tape
Overall screen	Tin plated copper braid (≥ 60 % coverage)
Sheath	LSFRZH, grey, RAL7035
electromagnetic compatibility	EMC

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Mechanical properties

Minimum bending radius	Installation	8 x D
	Installed	4 x D
Temperature range	during operation	-20°C up to + 60°C
	during installation	0°C up to + 50°C
Maximum tensile load, installation	During installation(4P/2x4P)	100N/200N
	Installed	No load

Electrical properties at 20°C± 5°C

loop resistance		≤ 25.0 Ω /100m
Resistance unbalance		≤ 2%
Insulation resistance	500 V	≥ 5000 MΩ *km
Mutual Capacitance	at 800 Hz	Nom. 44 nF/km
Capacitance unbalance	(pair to ground)	≤ 800 pF/km
Mean impedance	100 MHz	100 ± 5 Ω
Nominal velocity of propagation		0,75c
Propagation delay		≤ 429 ns/100m
Delay skew		≤ 10 ns/100m
Transfer impedance	at 1 MHz	≤ 10 MΩ /m
	at 10 MHz	≤ 10 MΩ /m
	at 30 MHz	≤ 25 MΩ /m
	at 100 MHz	≤ 55 MΩ /m

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Electrical data (nominal) acc. to Cat.6A (at 20°C)

F (MHZ)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACRF (dB/100m)	PS-ACRF (dB/100m)	Return loss (dB)
1.0	1.8	100	97	105	105	-
4.0	3.4	100	97	105	102	27
10.0	5.4	100	97	97	94	30
16.0	6.8	100	97	93	90	30
20.0	7.7	100	97	91	88	30
31.2	9.6	100	97	87	84	30
62.5	13.7	100	97	81	78	30
100.0	17.4	100	97	77	74	30
125.0	19.5	95	92	75	72	26
155.5	21.9	94	91	73	70	26
175.0	23.3	93	90	72	69	25
200.0	25.0	92	89	71	68	25
250.0	28.1	90	87	69	66	24
300.0	30.9	89	86	67	64	24
400.0	38.3	87	84	64	61	23
500.0	43.0	86	83	61	58	22
600.0	66.0	71	70	20	36	19
650.0	70.0	72	69	15	35	18

References

References	Description
AD-C4C6ASFPVC-650	Cable Cat. 6A S/FTP PVC, 650 MHz AWG 23
AD-C4C6ASFLSZH-650	Cable Cat. 6A S/FTP LSFRZH, 650 MHz AWG 23