REF : CX6xSH

100 Ω F/UTP x pairs category 6 cable– 350 MHz
Low Smoke Zero Halogen

MULTIMEDIA CONNECT

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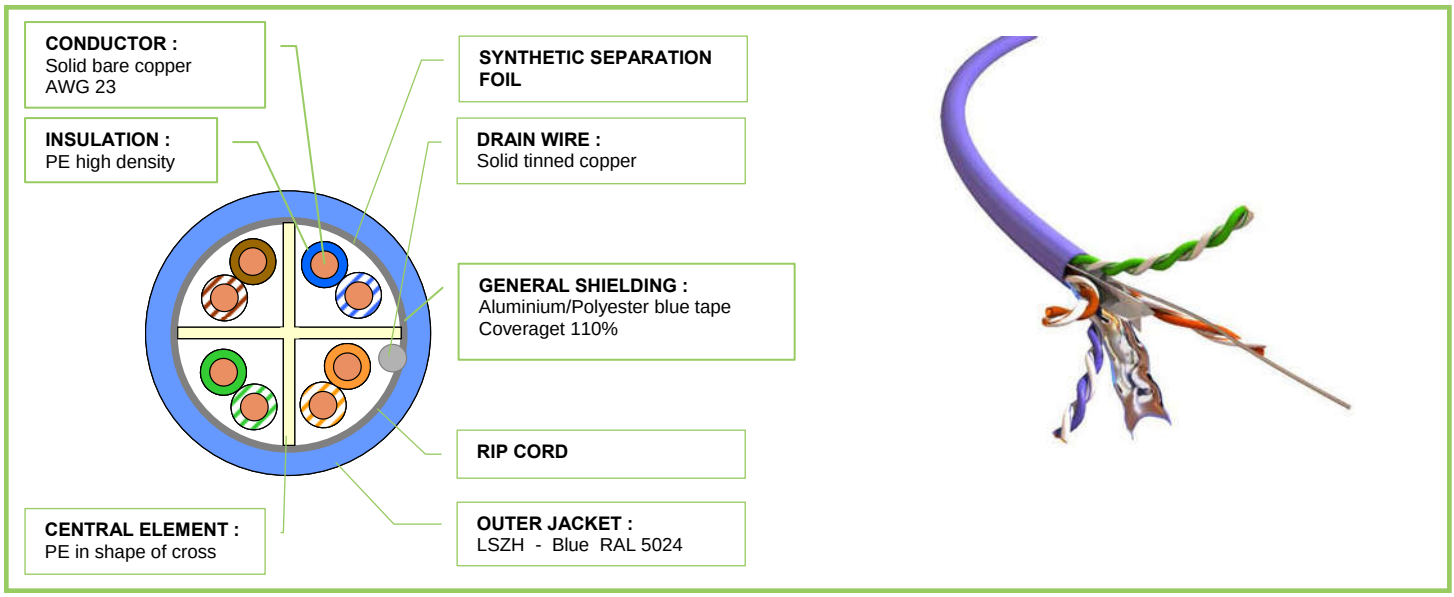

PRODUCT INFORMATIONS

Application

F/UTP (Foiled twisted pairs) cable, which is used in a horizontal or vertical configuraiton (Backbone), it constitutes the base of a V.D.I. (Voice-Data-Image) network to very high bit rate.

Its shielding with a high coverage allows him a use in disturbed environment and a correct operation up to 350MHz. Its internal structure ensures it important margins with the current standards.

This cable is used for transmission of digital and analogue voice, Data and video signals.

It can transmit :

- ISDN - RNIS
- TOKEN RING 4/16 Mbits
- 100 VG-AnyLAN
- TP-PMD/TP-DDI
- ATM 155, 622 Mbits/s et 1,2Gbits
- ETHERNET 10 Base T
- ETHERNET 100 Base Tx, 100 Base T4
- ETHERNET 1000 Base T – GIGABIT Ethernet
- IEEE 802.3 af – PoE (Power Over Ethernet) et future PoE+
- ETHERNET 10G Base T – 10 GIGABIT ETHERNET (from 55 meters to 100 meters)

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Standards / Performances

Performances of CX6-xSH cable comply with the limits defined by the following standards:

CABLE	SYSTEM
IEC 61156 **EN 50288-6-1**	**EIA/TIA 568-B.2-1 Category 6** **ISO 11801 Edition 2 – CLASSE E** **EN 50173 Edition 2 – CLASSE E** **ISO/IEC – TR24750** **TSB-155: legacy category 6 cabling from 250 MHz up to 500 MHz**

Electrical properties

Max. linear resistance :	**≤ 186 Ω / Km**
Mutual capacity (nom.) :	**52 pF / m**
Characteristic impedance from 1 to 100 MHz : from 100 to 250 MHz :	 **100 +/- 15 Ω** **100 +/- 20 Ω**
Velocity of propagation	**69 %**

Characteristics



Fire behaviour : **IEC 60332-1 / NF C 32070 C2**



Operating temperature : **- 20° C / + 70°C**



Minimum bending radius: **8 x cable diameter**



Conform to RoHS directive

Values

MEASUREMENTS (MHz)	ATTENUATION (dB/100 m)		NEXT (dB/100 m)		ACR (dB/100 m)		PS NEXT (dB/100 m)		ELFEXT (dB/100 m)		PSELFEXT (dB/100 m)		RETURN LOSS (dB/100 m)	
	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C	Standard	M.M.C
1	2.0	**1.8**	74.3	**82**	72.3	**80**	72.3	**87.3**	67.8	**83**	64.8	**82.5**	20.0	**36**
4	3.8	**3.0**	65.3	**73**	61.5	**70**	63.3	**84.7**	55.8	**80.7**	52.8	**81.6**	23.0	**35**
10	6.0	**4.7**	59.3	**67**	53.3	**63**	57.3	**83.2**	47.8	**77.2**	44.8	**76**	25.0	**35**
16	7.6	**6.3**	56.2	**64**	48.6	**58**	54.2	**82**	43.7	**72.6**	40.7	**72.2**	25.0	**32.5**
25	9.5	**8.1**	53.3	**61**	43.8	**53**	51.3	**78.5**	39.8	**71.1**	36.8	**71**	24.3	**35**
31.25	10.7	**9.3**	51.9	**60**	41.2	**51**	49.9	**73.8**	37.9	**69**	34.9	**69.3**	23.6	**34**
100	19.8	**17.6**	44.3	**52**	24.5	**45**	42.3	**70.1**	27.8	**67.5**	24.8	**67.1**	20.1	**33**
200	29.0	**25.6**	39.8	**48**	10.8	**23**	37.8	**62.4**	21.8	**66.4**	18.8	**66.2**	18	**32**
250	32.8	**30.7**	38.3	**47**	5.5	**17**	36.3	**60.8**	19.8	**65.2**	16.8	**65.1**	17.3	**31**
300	NC	**34.2**	NC	**45**	NC	**11**	35.1	**58**	18.2	**63**	15.25	**62.7**	NC	**28**
350	NC	**37.3**	NC	**42**	NC	**5**	34.1	**55**	16.9	**60.2**	13.9	**59.8**	NC	**27**

Standard: Values from IEC 61156-5 & EN50288 -
The installation & environmental requirements can modify the values above.
Multimedia Connect reserves the right to modify the present characteristics without preliminary notification

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Ordering informations

REF.	Pairs	[X]xAWG	mm+/-10% ext.	Kg/Km	
CX64SH	4	23	7.0	50	B305m T 500 m – T 1000 m
CX68SH	2x4	23	7.0x14.5	102	T 500 m – T 1000 m

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