Product data sheet
Characteristics

VDIC68X218F01
Actassi CL-MXC6A Cable LAN F/FTP 4P Cat6$_A$ 550MHz LSFRZH 500m

Main

Range	Actassi
Product	Network cable
Type of cable	4 twisted-pairs cable
Cable shielding type	F/FTP with exclusive patented metallic crossfiller
Communication network category	6_A
Supported applications	10GBASE-T
Protocol	PoE+ (Power over Ethernet) VoIP (Voice IP)
Cable colour	Blue
Material	Jacket : LSFRZH (low smoke fire retardant, zero halogen) Screen : metallic crossfiller Wire insulation : PE (polyethylene) Conductor : solid bare copper

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This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
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Complementary

Return loss	17.3 dB @500 MHz 17.3 dB @400 MHz 17.3 dB @300 MHz 17.3 dB @250 MHz 18 dB @200 MHz 19.4 dB @125 MHz 20.1 dB @100 MHz 21.5 dB @62.5 MHz 25 dB @20 MHz 25 dB @16 MHz 25 dB @10 MHz 23 dB @4 MHz
Attenuation	45.3 dB @500 MHz 40.1 dB @400 MHz 34.3 dB @300 MHz 31.1 dB @250 MHz 27.6 dB @200 MHz 21.5 dB @125 MHz 19.1 dB @100 MHz 15 dB @62.5 MHz 10.5 dB @31.25 MHz 8.4 dB @20 MHz 7.5 dB @16 MHz 5.9 dB @10 MHz 3.8 dB @4 MHz
Near end crosstalk	54.8 dB @500 MHz 56.3 dB @400 MHz 58.1 dB @300 MHz 75.8 dB @20 MHz 77.2 dB @16 MHz 78 dB @10 MHz 78 dB @4 MHz 59.3 dB @250 MHz 60.8 dB @200 MHz 63.8 dB @125 MHz 65.3 dB @100 MHz 68.4 dB @62.5 MHz 72.9 dB @31.25 MHz
Power Sum Near End Crosstalk (PS NEXT)	51.8 dB @500 MHz 53.3 dB @400 MHz 55.1 dB @300 MHz 56.3 dB @250 MHz 57.8 dB @200 MHz 60.8 dB @125 MHz 62.3 dB @100 MHz 65.4 dB @62.5 MHz 69.9 dB @31.25 MHz 72.8 dB @20 MHz 74.2 dB @16 MHz 75 dB @10 MHz 75 dB @4 MHz
Attenuation Crosstalk Ratio Far-end (ACR-F)	24 dB @500 MHz 26 dB @400 MHz 28.5 dB @300 MHz 30 dB @250 MHz 32 dB @200 MHz 36.1 dB @125 MHz 38 dB @100 MHz 42.1 dB @62.5 MHz 48.1 dB @31.25 MHz 52 dB @20 MHz 53.9 dB @16 MHz 58 dB @10 MHz 66 dB @4 MHz

Power Sum Alien Crosstalk Ratio Far-end (PS ACR-F)	21 dB @500 MHz 23 dB @400 MHz 25.5 dB @300 MHz 27 dB @250 MHz 29 dB @200 MHz 33.1 dB @125 MHz 35 dB @100 MHz 39.1 dB @62.5 MHz 45.1 dB @31.25 MHz 49 dB @20 MHz 50.9 dB @16 MHz 55 dB @10 MHz 63 dB @4 MHz
Power Sum Attenuation to Alien Crosstalk Far-end (PS AACR-F)	24.2 dB @500 MHz 26.2 dB @400 MHz 28.7 dB @300 MHz 30.2 dB @250 MHz 32.2 dB @200 MHz 36.3 dB @125 MHz 38.2 dB @100 MHz 42.3 dB @62.5 MHz 48.3 dB @31.25 MHz 52.2 dB @20 MHz 54.1 dB @16 MHz 58.2 dB @10 MHz 66.2 dB @4 MHz
Power Sum Alien Near End Crosstalk (PS ANEXT)	52 dB @500 MHz 53.5 dB @400 MHz 55.3 dB @300 MHz 56.5 dB @250 MHz 58 dB @200 MHz 61 dB @125 MHz 62.5 dB @100 MHz 65.6 dB @62.5 MHz 67 dB @31.25 MHz 67 dB @20 MHz 67 dB @16 MHz 67 dB @10 MHz 67 dB @4 MHz
Input impedance	100 Ohm @1...500 MHz
Delay skew	<= 45 ns @1...500 MHz
Resistance unbalance	<= 2 %
TCL	>= 40 - 10 x log(f) dB from 1...250 MHz (IEC 61156-5 Ed2
Coupling attenuation	>= 75 - 20 x log10(f / 100) dB from 100...1000 MHz (IEC 61156-5 Ed2, type Ib) >= 75 dB from 30...100 MHz (IEC 61156-5 Ed2, type Ib)
Transfer impedance	<= 60 mOhm/m 100 MHz (IEC 61156-5 Ed2, grade 1) <= 30 mOhm/m 30 MHz (IEC 61156-5 Ed2, grade 1) <= 10 mOhm/m 1...10 MHz (IEC 61156-5 Ed2, grade 1)
NVP	82 %
Pulling force	<= 400 N
Calorific value	765 MJ/km
AWG	23
Bending radius	Minimum bending radius during installation : 8 x overall diameter Minimum bending radius after installation : 4 x overall diameter
Cable outer diameter	7.7 mm
Cable packaging	Drum of 500 m
Cable weight	65 kg/km

Environment

Ambient air temperature for installation	0...50 °C
Ambient air temperature for operation	-20...60 °C
Ambient air temperature for storage	-20...60 °C
Temperature resistance	60 °C
Standards	Flame propagation characteristics : NF C 32070-1 Performance : EN 50288-10-1 Flame propagation characteristics : IEC 60332-3C Installation standards : EN 50174-1 Installation standards : ISO/IEC 14763-2 Smoke generation : IEC 61034 Acidity of combustion gases : IEC 60754-2 Halogen gas evolution : IEC 60754-1 Flame propagation characteristics : IEC 60332-1 Performance : EN 50173-1 Performance : IEC 61156-5 Ed2