

FutureCom™ S500 Jack

Category 6_A, blue

CORNING

The FutureCom S500 jack offers high system margins for transmission of digital data signals for future applications in systems up to 10GbE according to the new class E_A (ISO/IEC 11801 Amd 2 (2010-4) respectively Cat.6A (ANSI/TIA/EIA 568B.2-10), EN 50173 and IEC 60603-7-51 Ed. 1 (IEC 48B/1977/CDV, 2008-12). The jack is also suitable for Power over Ethernet (PoE) applications in compliance with IEEE 802.3af (2003) and the new PoE Plus applications.

No special tools are required for either the termination of jacks onto cables or the installation of the jacks into outlets. The individual single shielding of the jacks (in compliance to EN 50174) is absolutely necessary for these high bit rate applications.

Features

- Cat. 6_A certified by independent testing body
- Quick and easy to install
- No specific tools required
- IDC connection (IDC = Insulation Displacement Contacts)
- High density
- Universal application in all modular LANscape® components
- 10GBase-T
- Compact design, only 3 individual components
- Individual jack shielding by stable diecast housing
- 360° shield contact and cable strain-relief without cable tie



Specifications

General Specifications	
Category	6 _A
Bandwidth	500 MHz
Application	10GBase-T
Halogen-free	Yes
Dust Protection	Yes

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General Specifications

Transmission Performance Link	Class E _A (ISO/IEC 11801 AMD 1:2008 and AMD 2:2010), EN 50173-1 and 2, Cat.6A (ANSI/TIA/EIA 568B.2-10)
Component Standard	ISO/IEC 11801 Amd.2 (2010), ANSI/TIA/EIA-568-B.2-10

Temperature Range

Installation and Assembly	-20 °C to 70 °C
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Design - Hardware

Jack Type	RJ45 - 8/8
Housing Material	Metal
Colour	blue
Number of Pieces	3

Mechanical Characteristics

Durability of RJ45 Jack	> 1500 mating cycles possible, EN 186000-1, test 4.5.32
Durability of RJ45 Jack (PoE)	> 1000 mating cycles under load (48 volt, 15.4 watt) in compliance with technical transmission parameters
IDC Contacts	Suitable for AWG 24-22 solid wires
Reproducibility	Several times reusable
Cable Entry	0 ° to 90 ° variable, with 360° shield contact and strain relief
Dimensions (L x W x H)	35 mm x 18 mm x 26 mm

Electrical characteristics (at 20°C)

Coupling Attenuation	≥ 75dB-20log(f/100) dB at 100 MHz to 1000 MHz
Transfer Impedance	≤ 200 mΩ at 10 MHz
Ampacity	≥ 750 mA (DC)
Input to output DC Resistance	≤ 200 mΩ
Input to output DC Resistance Unbalance	≤ 50 mΩ
Electric strength DC (conductor/conductor)	≥ 1000 V
Electrical strength DC (conductor/test plate)	≥ 1500 V
Insulation Resistance	≥ 500 MΩ (DC)

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Chemical characteristics

Flame Retardance	Class UL94 V-0
RoHS	Free of hazardous substances according to RoHS 2002/95/EG
Environmental Compatibility	Recyclable and free of heavy metal

Ordering Information

Part Number	CAXASM-00104-C001
Product Description	S500 jack, Cat. 6 _A , 1x RJ45, shielded, 10GBase-T for class E _A , basic jack blue, wire management with TIA/EIA 568 A/B printing, for installation in LANscape® modular patch panels, outlets and floor box solutions.
EAN Code	4042673264415
Weight	30.3 g

Shipping Information

Packing Weight	32.3 g
Units per Delivery	1/1



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