

FutureCom™ S500 Jack Category 6A, blue

CORNING

Part Number:
CAXASM-00104-C001

The FutureCom S500 module offers high system margins for transmission of digital data signals for future applications in systems up to 10GbE according to the new class EA (ISO/IEC 11801 Ed.2.2 2011 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 module 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 modules onto cables or the installation of the modules into outlets. The individual single shielding of the modules (in compliance to EN 50174) is absolutely necessary for these high-bit-rate applications.

Features and Benefits

Fulfills the requirements for the 2 and 4 connector model according to E Class

6-Connector Permanent Link / Channel, certified by independent testing body

Suitable for EA Class applications according to ISO/IEC 11801 Ed. 2.2 (2011) and EN 50173 series (2011)

Universal application in all modular LANscape® components

Quick and easy to install (compact design, only 3 individual components, no specific tools required)

Individual jack shielding by stable diecast housing

360° shield contact and cable strain-relief without cable tie

Captive dust cover, black

Supports Power over Ethernet (PoE/PoE+/4PPoE)

All components are certified as Category 6A according to ISO/IEC 11801 Ed. 2.2 of GHMT AG

Certified by a vendor-independent and impartial test lab (GHMT AG); PVP Certificate



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Specifications

Environmental Conditions

Environmental compatibility	Recyclable and free of heavy metal
Temperature range, installation	-20 °C to 70 °C

Design

Jack Type	RJ45 - 8/8
Number of Pieces	3
Housing material	Metal
Colour	Blue
Insulation diameter max.	8 mm
Wire Conductor+Insulation diameter max.	1.6 mm

Electrical Specifications

Input to output DC Resistance Unbalance	50 MΩ
Ampacity	≤ 750 mA (DC)
Input to output DC Resistance	200 MΩ
Coupling attenuation	30 MHz < f < 100 MHz: > 45 dB / 100 MHz < f < fmax: > 85-20*log(f)
Electric strength DC (conductor/conductor)	≥ 1000 V DC/AC peak
Transfer Impedance	≤ 200 mΩ at 10 MHz
Electrical strength DC (conductor/test plate)	≥ 1500 V DC/AC peak

Mechanical Specifications

Durability of RJ45 Jack (PoE)	≥ 1000 mating cycles under load (48 volt, 15.4 watt) in compliance with technical transmission parameters
Durability of RJ45 Jack	≥ 1500 mating cycles possible, EN 186000-1, test 4.5.32
Cable Entry	0° to 90° Variable, with 360° shield contact and strain relief
IDC Contacts	Suitable for AWG 24-22 solid wires

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Mechanical Specifications

Contact surface	Gold pad in contact area
Reproducibility	Several times reusable
Housing material	Metal

General Specifications

Product category	Core product / Fastship
Category	6A
Halogen-free	Yes
Bandwidth	500 MHz

Dimensions

Height	23 mm
Width	18 mm
Depth	35 mm

Ordering Information

Product Number	CAXASM-00104-C001
EAN Code	4042673264415
Weight	30.3 g
Packing Weight	32.3 g
Units per delivery	1/1

Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Transmission performance link	Class EA (ISO/IEC 11801 Ed. 2.2 2011)EN 50173-1 and 2Cat.6A (ANSI/TIA/EIA 568B.2-10)
Component Standard	ISO/IEC 11801 Ed.2.2 2011ANSI/TIA/EIA-568-B.2-10

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Standards	
Flame retardance	Class UL94 V-0



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