

PRODUCT DATA SHEET

EngineerPro® Cat 6A Modular Plug

Description

Nitrotel EngineerPro® Augmented Cat6 Modular Plug allow customers to meet performance requirements in ISO 11801 Class EA, IEEE 802.3an-2006 and ANSI/TIA-568.2-D Category 6A standards to support transmission at speeds up to and including 10GBASE-T. This modular plug is designed to terminate directly to CAT6a and CAT6 large diameter solid conductor cabling. Typical modular plugs are designed for use on patch cable assemblies and therefore are designed to terminate to stranded conductors of wire sizes from AWG 24 through AWG 28. However, in many direct connect, or consolidation point applications where link lengths exceed 10 Meters, a horizontal cable type is specified. Horizontal cable is normally made with solid conductor copper wire in the diameter range of AWG 23 through AWG 24. This larger copper size translates into larger conductor diameters which make terminating to a traditional modular plug problematic. EngineerPro® cat6A Modular Plug design accommodates this large diameter cabling in the form factor of a standard RJ45 plug.



Features

- 8-position, 8-wire, UTP modular plug exceeds ANSI/TIA Category 6A and ISO Class EA performance requirements when properly terminated to Nitrotel Category 6A UTP copper cable.
- Field installable plug for cable conductors up to 0.048” and overall diameters up to .295”
- Supports PoE, PoE+ applications.
- Low profile design allows for use in high density switches and routers
- 3-pieces design
- Rated to 2000 mating cycles
- 50u” gold plated contacts.
- Crimps with a standard RJ-45 crimp die

Applications:

- Storage area networking (SAN) application.
- Aggregation Gigabit Ethernet channels.
- Switch-to-switch links for very high-speed connections between switches in the equipment room, in the same data center, or in different buildings.

Electrical Test:

AC max at 2A	250V
Dielectric Withstanding	1000V DC/min <0.5A
Insulation Resistance	>500 MΩ , 1000V DC/min
Contact Resistance	<20 MΩ

Mechanical Characteristics:

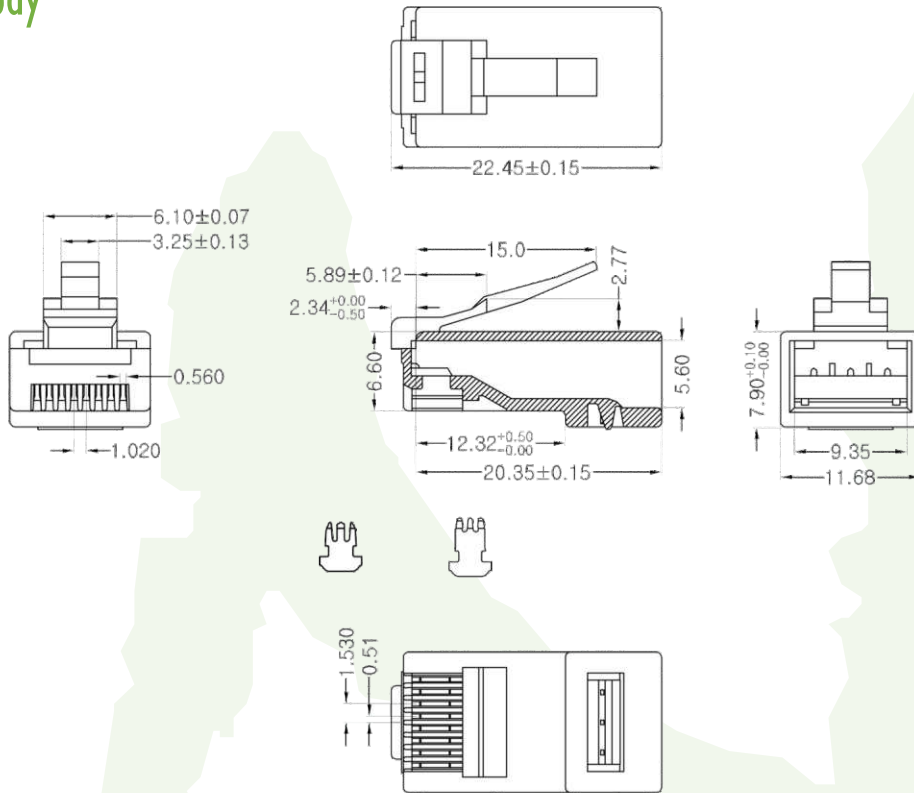
Cable-to-plug tensile strength	20LBS (89N) min.
Durability	2000 mating cycles.
Operating Temperature	-40°C~+125°C

Packaging

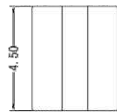
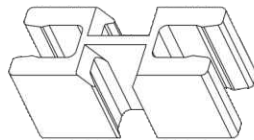
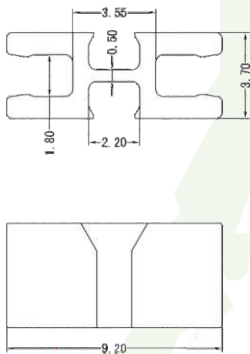
Packaging: 100 units packaged in a clear plastic bag.



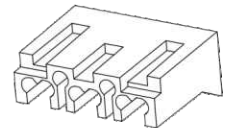
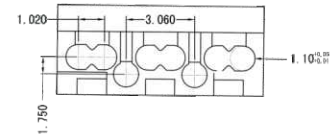
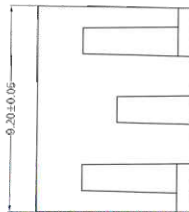
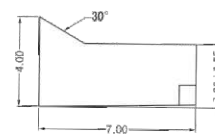
Plug Body



Splitter



Load Bar



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