

Modular Cable Assemblies – RJ45 Series

CAT3/5, CAT5e, CAT6/6a, and CAT8 Ethernet Cables

RJ45 cable assemblies are offered in a variety of colors, lengths, and boot styles with speeds up to 25 Gigabit Ethernet. The RJ45 plugs have injection-molded kinks to protect the cable and wire. There are three main strain relief styles: non-booted, bubble boot, and latch boot. The boot offers protection to the locking tab on the RJ45 plug which prevents it from being damaged. These styles are well-suited for usage with frequent insertions and extractions. The bubble boot is suited for environments with a lower need for disconnection, while the latch boot is easier to disconnect and can fit in smaller spaces. The cable jacket material is UL CM rated with standard PVC or low-smoke-zero-halogen (LSZH). A full range of cable shielding options is available. The double-shielded versions are suited for protection against harsh EMI/RFI conditions.



TARGET MARKETS



FEATURES

- Ratings: CAT5e, CAT6/6a, and CAT8
- Shielding: unshielded, single-shielded, and double-shielded
- Wire gauges: 24AWG, 26AWG, 28AWG, and 30AWG
- Jacket materials: PVC and LSZH
- Color: gray, black, blue, red, green, yellow, white, and brown

BENEFITS

- Customers can customize the selection as per application
- With the modular structure, customer can achieve maximum flexibility with design
- Customer can select the grade based on application and space
- Provides flexibility based on application
- Enhanced flexibility to customer

TECHNICAL INFORMATION

MATERIAL

- Cable Jacket: PVC / LSZH
- Plug Contacts: Phosphor Bronze hard temper with Gold thickness options (3µin, 15µin, 30µin, 50µin)
- Shield: UTP and S/FTP
- Boot Style : Unbooted, Latch, Bubble

ELECTRICAL PERFORMANCE

- Contact Resistance: 20mΩ max.
- Insulation Resistance: 100MΩ min
- Voltage Rating: 30VDC
- Dielectric Withstanding Voltage: 300VDC, 60Hz., 1 minute
- PoE Compatible

MECHANICAL PERFORMANCE

- Insertion Force: 20N max.
- Pull Retention Force: 50N min.
- Durability: 750 mating and unmating cycles

ENVIRONMENTAL

- Operating Temperature Range: -20°C to +60°C (+80°C for SFTP)
- Recommended Storage Temperature: -20°C to +60°C

SPECIFICATION

- Amphenol Product Specification: S6233C

APPROVALS & CERTIFICATION

- RoHS
- REACH
- UL

PACKAGING

- Individual cable assembly in a poly bag
- Box packing

TARGET MARKETS/APPLICATIONS



5G Wireless
Telephones
Modems
Fax Machines
Copiers/Printers



Security Systems
Set Top Boxes
Video Game Systems
PCs
Laptops



Storage
Servers
Routers
Switches
Hubs



Uninterruptible Power Supply (UPS)
ATMs
Vending Machines
POS Terminals
Industrial IoT Platforms



Analysis Equipment
Mass Spectrometers

PART NUMBER SELECTOR

X	X	XXX	X	X	X	X	XX																																																																																																																										
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