

## Modular Cable Assemblies – RJ45 Series

### CAT3/5, CAT5e, CAT6, and CAT6a Ethernet Cables

RJ45 cable assemblies are offered in a variety of colors, lengths, and boot styles with speeds up to 10 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, and CAT6a
- Shielding: unshielded, single-shielded, and double-shielded
- Wire gauges: 24AWG, 26AWG 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

## 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
- 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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