

Modular Cable Assemblies - RJE1Y Series

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

RJE1Y 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, 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 (3 μ in, 15 μ in, 30 μ in, 50 μ in)
- Shield: UTP and S/FTP
- Boot Style : Unbooted, Latch, Bubble

ELECTRICAL PERFORMANCE

- Contact Resistance: 20m Ω max.
- Insulation Resistance: 100M Ω 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

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PART NUMBER SELECTOR

X	X	XXX	X	X	X	X	X	XX
CAT5e Flat	A		24#AWG, UTP	1		01	Both End plused, PVC Jacket, RoHS cable	
CAT6, Flat	B		24#AWG, S/FTP	2		02	One end plused, RoHS cable	
CAT6a ,Flat	C		26#AWG, UTP	3		03	Both plused, LSZH Jacket cable	
CAT5e, Round	1		26#AWG, S/FTP	4		04	Both plused, LSZH Jacket cable, red color plug	
CAT6, Round	2		30#AWG, UTP	5		05	Both plused, TPE Jacket cable	
CAT6a, Round	3		30#AWG, S/FTP	6				
White	1					1	8P8C, Gold flash	
Black	2					2	8P8C, 8µin	
Grey	3					3	8P8C, 30µin	
Green	4					4	8P8C, 50µin	
Yellow	5					5	8P4C, Gold flash	
Blue	6					6	8P4C, 8µin	
Purple	7					7	8P4C, 30µin	
Red	8					8	8P4C, 50µin	
00 to 99 Centimeters		200 to 999						
1 Meter + 00 to 99 Centimeters		A00 to A99						
2 Meter + 00 to 99 Centimeters		B00 to B99						
3 Meter + 00 to 99 Centimeters		C00 to C99						
4 Meter + 00 to 9 Centimeters		000 to D99						
5 Meter + 00 to 99 Centimeters		E00 to E99						
6 Meter + 00 to 99 Centimeters		F00 to F99						
7 Meter + 00 to 99 Centimeters		G00 to G99						
8 Meter + 00 to 99 Centimeters		H00 to H99						
9 Meter + 00 to 99 Centimeters		J00 to J99						
10 Meter + 00 to 99 Decimeters		K00 to K99						
20 Meter + 00 to 99 Decimeters		L00 to L99						
30 Meter + 00 to 99 Meters		M00 to M99						
EXAMPLE: 75CM=750, 6.3M=F30, 25M=L50, 80M=M50								
3	Diameter within 3mm to 4mm (under)							
4	Diameter within 4mm to 5mm (under)							
5	Diameter within 5mm to 6mm (under)							
6	Diameter within 6mm to 7mm (under)							
8	Diameter within 8mm to 9mm (under)							
A	4.8mm length for flat cable (under)							
B	6.8mm length for flat cable (under)							
C	8mm to 9mm width (cable section) for flat cable (under)							

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