

## AS-RJ, CAT6 Network, Ethernet connector for harsh environment

**AS-RJ** is RJ45 connector for Signal data transmission, designed for high speed CAT6 Network applications like, 10Base T, 100Base Tx, and 1000Base T (1GB) for harsh environment. This connector made of metallic material & its ruggedness can sustain high temperature environment Military & Aerospace applications.

### Applications

- Railways
- Radars
- Shelters
- Battlefield communication
- Systems
- Navy

## CONNECTOR SPECIFICATIONS

| SL.NO. | CONSTRUCTION   | MATERIAL            | FINSIH   |
|--------|----------------|---------------------|--|
| 1      | Shell body     | Aluminium Alloy     | "Cadmium Olive Drab over electroless Nickle, Electroless Nickel" |
| 2      | Insert         | Engineering Plastic | Natural  |
| 3      | Oring          | Silicon Rubber      | Natural  |
| 4      | Grommet / Seal | Silicon Rubber      | Natural  |

| MECHANICAL   |         |        |
|--|---------|--------|
| Durability   | 500     | cycles |
| Coupling Mechanism   |         |        |
| 'Tripple start thread with Anti-Decoupling device shell-19 (MIL-DTL-38999 Series III type) |         |        |
| Insert retention   |         |        |
| '100N in the axial direction   |         |        |
| Cable Range  |         |        |
| Min Dia  | Max Dia | UOM    |
| 6  | 13      | mm     |
| Polarization   |         |        |
| 4 Positions A, B, C, D   |         |        |
| Vibration  |         |        |
| Sine 60G, @ 140 - 2000Hz @ -55 to +175 °C ± 5°C  |         |        |
| Shock (Peak Acceleration)  |         |        |
| Half Sine wave pulse 300G ± 15 percent magnitude, duration 3 ± 1msec                       |         |        |

| DIGITAL                    |   |
|----------------------------|---|
| CABLE TYPE                 | CAT6  |
| Data Transmission Capacity |   |
| 10Base T                   | Up to 250 MHz<br>Freequency<br>applications |
| 100 Base Tx                |   |
| 1000 Base T                |   |
| Data Loss Range            |   |
| NEXT Loss, Single coupling | >10dB @<br>2mtr Dist.                       |
| NEXT Loss, Double coupling | >4.6dB @<br>3mtr Dist.                      |

| ENVIRONMENTAL                        |                 |     |
|--------------------------------------|-----------------|-----|
| Sealing                              | IP 68           |     |
| Operating Temperature                |                 |     |
| Class                                | Range           | UOM |
| W                                    | - 65 to +100    | °C  |
| F                                    | - 65 to +100    | °C  |
| Corrosion Resistance (Salt Spray Hr) |                 |     |
| Class                                | Value @<br>35°C | UOM |
| W                                    | 500             | Hr  |
| F                                    | 48              | Hr  |

## ORDERING CONFIGURATION

| PART NUMBER →  | AS-RJ6 2 A PEM 1 G |
|--|--------------------|
| AMPMIL CODE  |                    |
| AS-RJ6 = CAT 6 Female Socket                           |                    |
| SHELL TYPE   |                    |
| 2 = Square Flange (Wall mount) Receptacle              |                    |
| 7 = Jam Nut Receptacle                                 |                    |
| 2S = Square Flange (Wall mount) Receptacle rear sealed |                    |
| 7S = Jam Nut Receptacle rear sealed                    |                    |
| CODING (POLARIZATION)                                  |                    |
| A, B, C, D   |                    |
| BACKSHELLS   |                    |
| PEM = IP68 Backshell, metal gland                      |                    |
| Keep Blank for without Backshells                      |                    |
| BACK TERMINATION                                       |                    |
| 1 = Female RJ45  |                    |
| SHELL MATERIAL & FINISH                                |                    |
| G = Aluminium shell – Olive drab Cadmium plating       |                    |
| BZ = Marine Bronze shell – inserts are metallized      |                    |

| PART NUMBER →                                     | AS-RJ 2 A |
|---|-----------|
| AMPMIL CODE                                       |           |
| SHELL TYPE  |           |
| 6M = Plug connector with Metal Gland              |           |
| SHELL MATERIAL & FINISH                           |           |
| G = Aluminium shell – Olive drab Cadmium plating  |           |
| BZ = Marine Bronze shell – inserts are metallized |           |