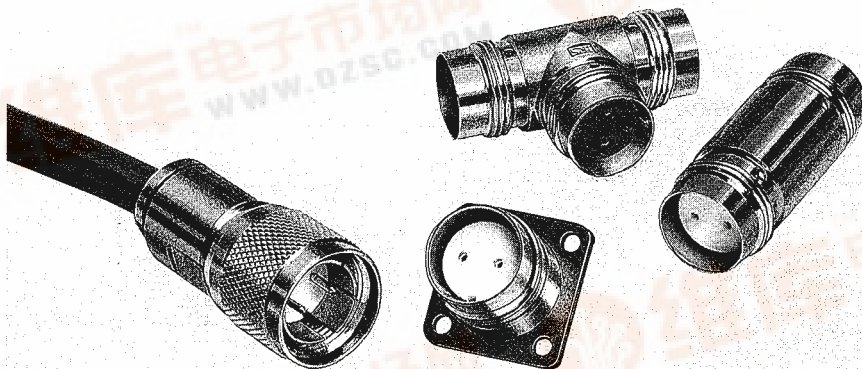


MRF SERIES RF CO-AXIAL CONNECTORS

Coaxial two-core(TWT2)connectors

Overview

Coaxial two-core connectors are medium-sized, weather-resistant coaxial connectors of the screw coupling type, suitable for use with medium-sized coaxial two-core cables. They are interchangeable with products conforming to MIL standards (plug: UG-421B/U, receptacle: UG-422/U) and can be used for frequencies of up to 200MHz. They are suitable mainly for connections between computers and terminals.



Characteristic features

- (1) Most suitable for long- and medium-distance connections between computers and terminals, relay connections, and connections of VHF-band transmission equipment.
- (2) Most suitable for noise-proof transmission.
- (3) High-performance connectors that can be used for frequencies of up to 200MHz.
- (4) Interchangeable with products conforming to MIL standards.

MRF SERIES RF CO-AXIAL CONNECTORS

Materials, finish

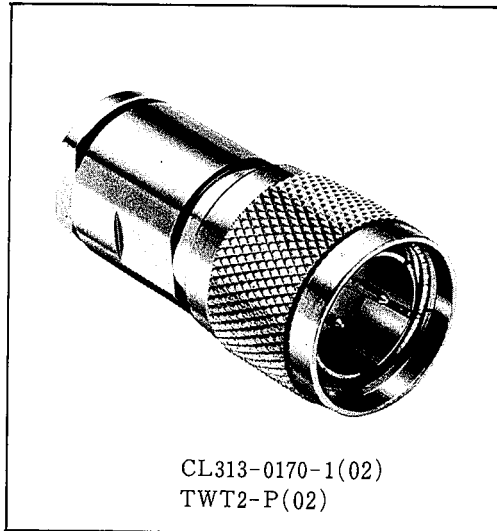
| Part | Materials | Finish |
|-------------------------|------------------|------------------------------------|
| Armor (shell) | Brass | Nickel plating |
| Center contact (male) | Brass | Silver plating + surface treatment |
| Center contact (female) | Beryllium copper | Silver plating + surface treatment |
| Insulation | Synthetic resin | |
| Rubber packing | Silicone rubber | |

Performance characteristics

| Items | | Performance characteristics |
|-------------------------------|---|--|
| Electrical characteristics | Insulation resistance | 1000M Ω or higher when measured at 500V DC between the center contacts and between the center and outer contacts. |
| | Withstand voltage | 1500V AC (rms) for 1 minute between the center contacts and between the center and outer contacts. |
| | Contact resistance | 4m Ω or less at center contacts and at outer contacts. |
| | Characteristic impedance | 95 Ω |
| Mechanical characteristics | Contact service life | After 1000 times insertions and withdrawals, the contact resistance must be 10m Ω or less at center contacts and at outer contacts. |
| | Holding force of center contact | 100g or more |
| | Cable clamping force | 10kg or more |
| Environmental characteristics | Temperature cycles | There must be no abnormalities when tested by Method 102A, MIL-STD-202E, under test condition D. |
| | Vibration resistance | There must be no abnormalities when tested by Method 210A, MIL-STD-202E. |
| | Impact resistance | There must be no abnormalities when tested by Method 213B, MIL-STD-202E, under test condition A. |
| | Humidity resistance (Temperature-humidity cycles) | There must be no abnormalities when tested by Method 106D, MIL-STD-202E. |
| | Corrosion resistance | There must be no abnormalities when tested by Method 101D, MIL-STD-202E, under test condition B. |

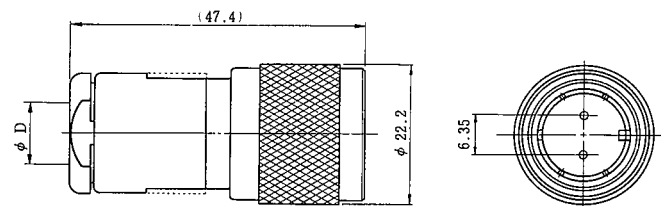
MRF SERIES RF CO-AXIAL CONNECTORS

1. Plugs

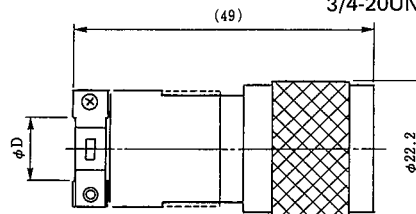


| HRS No. | Part No. | Applicable cables | φD |
|--------------------|--------------|--|------|
| CL313-0170-1(02) | TWT2-P(02) | Special two-core coaxial cables (manufactured by Sumitomo Electric Industries, Ltd.) | 9.5 |
| ★ CL313-0193-7 | TWT2-P-22/U | RG-22B/U | 11.2 |
| ★★ CL313-0271-9-02 | TWT2-P-6(02) | Two-core coaxial cable (φ6 ~ φ9) | 9.5 |

- ★ Standard product.
- ☆ Center contact fixed type.

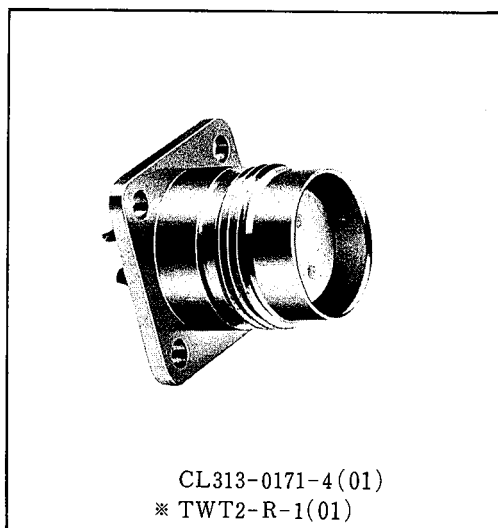


TWT2-P(02) Screw dimensions at fitting part 3/4-20UNEF-2B



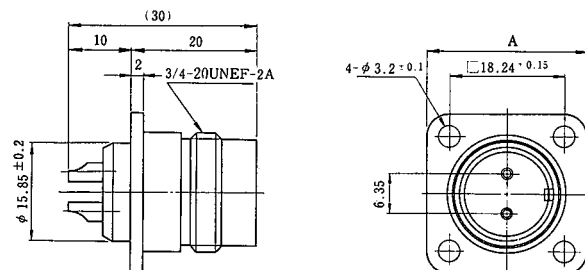
TWT2-P-6

2. Receptacle



| HRS No. | Part No. | A | Material |
|--------------------|--------------|-------|------------------|
| ★ CL313-0171-4(01) | TWT2-R-1(01) | □25.4 | Brass |
| ★ CL313-0240-5 | TWT2-R-1B | □23.4 | Zinc die casting |

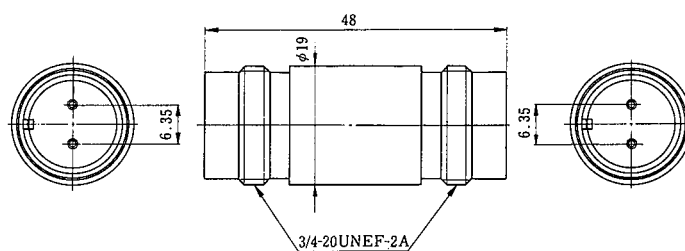
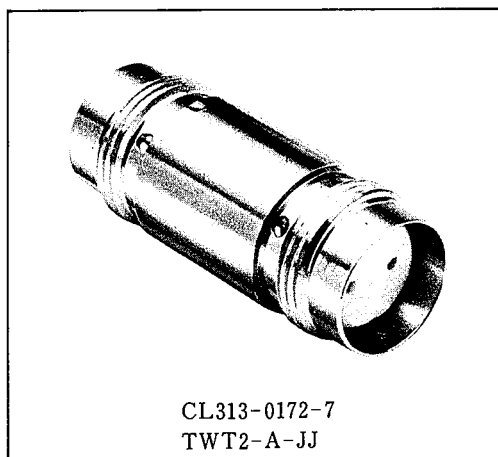
- ★ Standard product



- ★ Standard product

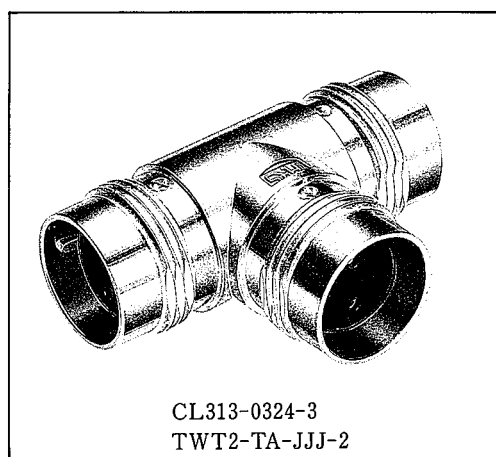
MRF SERIES RF CO-AXIAL CONNECTORS

3. Linear adapter

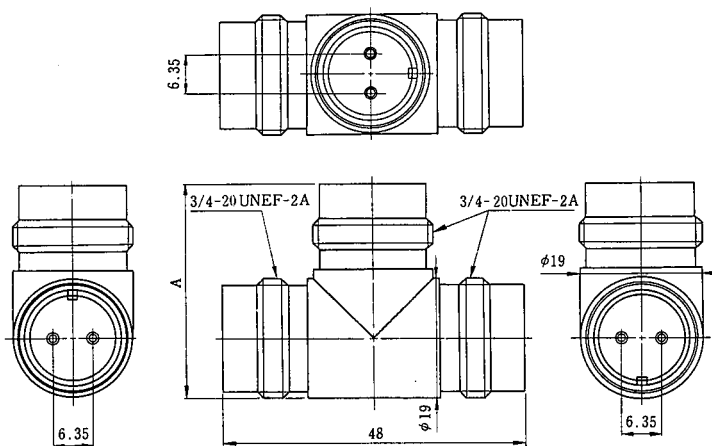


TWT 2-A-JJ

4. T-type adapter



| HRS No. | Part No. | A | Materials |
|--------------|---------------|------|------------------|
| CL313-0324-3 | TWT2-TA-JJJ-2 | 33.4 | Zinc die casting |



5. Cap

