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PL-183

## SPECIFICATIONS

SERIES: QDL
NO. OF CONTACT: ONE(1)
TYPE OF CONTACT: ROUND, MALE
DIELECTRIC: TEFLON

### ELECTRICAL DATA

MAX. PEAK VOLTAGE:
NOMINAL IMPEDANCE: 50 Ω

### CABLE ACCOMODATIONS

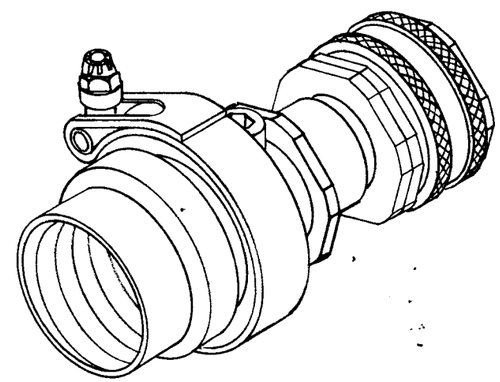
TYPE : STYROFLEX
MAX. OD: 1-5/8
IMPEDANCE : 50 Ω

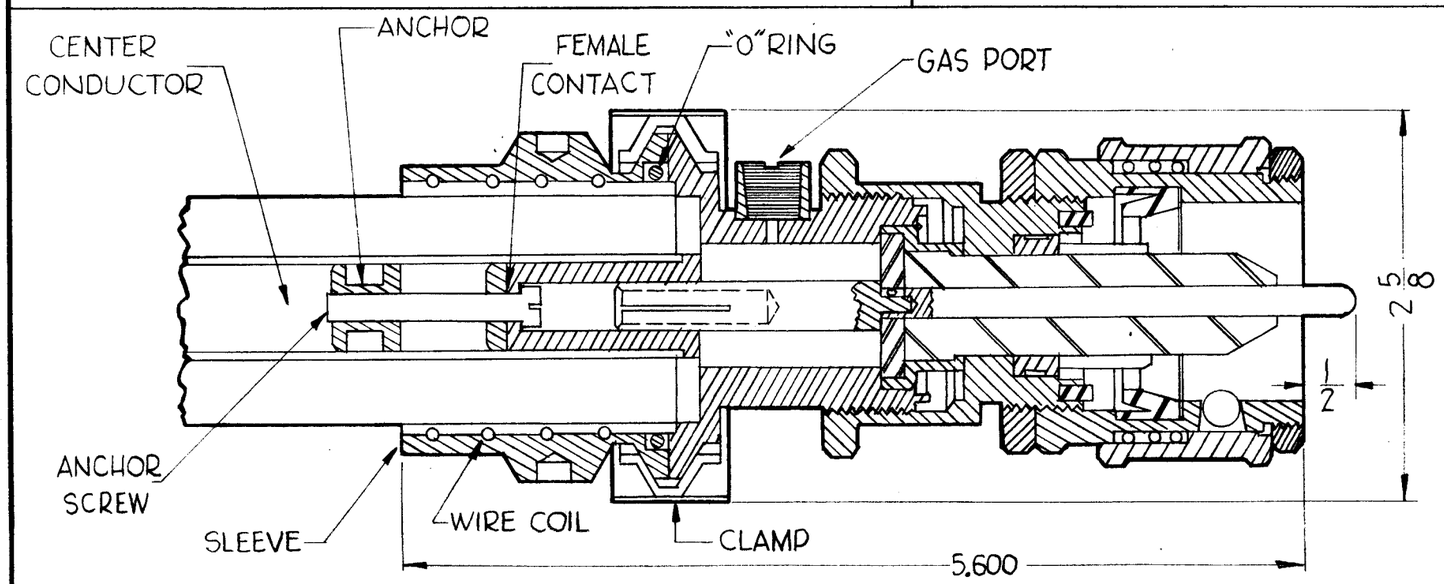
### MATERIAL

EXTERNAL PARTS: BRASS
CONTACT : BERYLLIUM COPPER
INSULATION : LOW LOSS PLASTIC DIELECTRIC (TEFLON)
CLAMP : STAINLESS STEEL

### FINISH

EXTERNAL PARTS: SILVER PLATE W/RHODIUM FLASH
CONTACT : SILVER PLATE W/GOLD FLASH






TO BE SUPPLIED BY TMC
GL-117 ANTI-SIEZE COMPOUND
GL-118 "O" RING GREASE

## INSTALLATION INSTRUCTIONS

1. Using a sharp tubing cutter, score cable 3" from end. Do not cut through aluminum jacket.
2. Using emery cloth, clean a section of the aluminum jacket approximetely 1" long centered on scored groove. The emery cloth should be used in shoeshing fashion and all scratches and marks must be removed from jacket. The "O" ring used to seal connector seats against this surface and therefore any scratches or defects may cause leaks in the finished assembly. Brush off sanding dust from jacket.
3. Grip end of cable in vise and flex cable gently until the aluminum jacket fractures at the scored groove. Do not break the Styrene sleeve just under the aluminum jacket.
4. Using hot knife tool, cut Styrene sleeve and Helix down to center conductor flush with aluminum jacket. Pull off short end of jacket and Styrene.
5. Saw off center conductor .061 from end of cable. Make saw cut carefully so that end of center conductor is staight and square, with cable axis. Remove inside and outside burrs from center conductor, being careful to keep chips out of cable.
6. Insert female contact assembly (female contact, anchor screw and anchor)into center conductor of cable. If anchor is difficult to enter in center conductor, unscrew anchor several turns on screw. Insert screwdriver into head of anchor screw and push straight into center conductor until anchor screw and female contact shoulder. Tighten anchor screw until female contact is firmly seated in center conductor.
7. Separate sleeve from connector at clamp.
8. Push on wire coil over jacket until coil is entirely on jacket and rear end of coil is approximately 3/8" from end of jacket. Coat inside of sleeve with TMC GL-117 anti-size compound. Use compouned sparingly and wipe off any exess before starting sleeve on cable.
9. Push sleeve over cable until wire end enters notch and is in line with thread groove. Turns sleeve clockwise, making certain that wire is engaged in thread and is not turning with sleeve. Turn on sleeve until cable extends beyond sleeve 1/32".
10. Grease sleeve "O" ring with"O" ring grease, TMC GL-118 No. 4 compound, and instail in sleeve.
11. Reassemble connector with sleeve by mating center conductor and tightening clamp.

| SYM | DESCRIPTION | DATE | CH. NO. | DRAFTS | CHECKER | ENG. APP. |
|---|---|---|---|---|---|---|
| A | PICTORIAL REDRAWN w/ CLARIFIED SPECS ADDED | 5/1/61 | — | DM | | |

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ± 1/2°

SCALE: S-401-70 (9205)

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

| REQ. PER UNIT | MODEL | SECTION | ASS'Y. NO. | DATE |
|---|---|---|---|---|
| | QDL SERIES | | | 5-1-61 |

USED ON

| REQ. | ITEM | PART NO. | DESCRIPTION | SYMBOL |
|---|---|---|---|---|
| | | | THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK | |
| STOCK SIZE | | | CONNECTOR, PLUG, ELECTRICAL | |
| MATERIAL | | | QDL SERIES (50 Ω ) | |
| TYPE & TEMPER | HEAT TREAT. SPEC. | | DRAWN / CHECKER / FINAL APPROVAL | |
| FINISH & SPEC. NO. | | | ELEC. DES. APP. / MECH. DES. APP. | PL-183 A |

TMC FORM NO. 109

DEFIANCE NO. 1020 36352