



7/16 COAXIAL CONNECTORS

Connex 7/16 series connectors provide superior performance for both return loss and inter-modulation distortion. These connectors are ideal for those applications where vibration resistance and environmental protection is important, such as radio base stations and broadcast communication applications.

Connectors are 50 ohm impedance with standard M 29 x 1.5 metric threaded coupling. Designed to conform to the DIN standards, featuring excellent power-handling capability and low VSWR up to 7.5 GHz.

Nexcote, our trade name for the popular white bronze plating, is available upon request. Just add "NEX" to end of part number.

ELECTRICAL SPECIFICATIONS

|                                 |                                                                               |
|---------------------------------|-------------------------------------------------------------------------------|
| Impedance                       | 50 ohm                                                                        |
| Frequency range                 | 0–7.5 GHz                                                                     |
| Working Voltage                 | 2700 VRMS maximum at sea level                                                |
| Dielectric Withstanding Voltage | 4000 VRMS minimum at sea level                                                |
| VSWR                            | Straight: 1.3 maximum    Right Angle: 1.5 maximum                             |
| Contact resistance              | Center Contact: 0.4 milliohms maximum    Outer Contact: 0.2 milliohms maximum |
| Insulation resistance           | 5000 Megohms minimum                                                          |

MATERIAL SPECIFICATIONS

| PARTS NAME       |        | MATERIAL                      | FINISH |
|------------------|--------|-------------------------------|--------|
| Body metal parts |        | Brass per QQ-B-626            | Silver |
| Contacts         | Male   | Brass per QQ-B-626            | Silver |
|                  | Female | Beryllium copper per QQ-C-530 | Silver |
| Insulator        |        | PTFE                          | None   |
| Gasket           |        | Silicone rubber               | None   |
| Crimp ferrule    |        | Annealed copper               | Silver |

**Note:** Other materials/finishes are available on request.

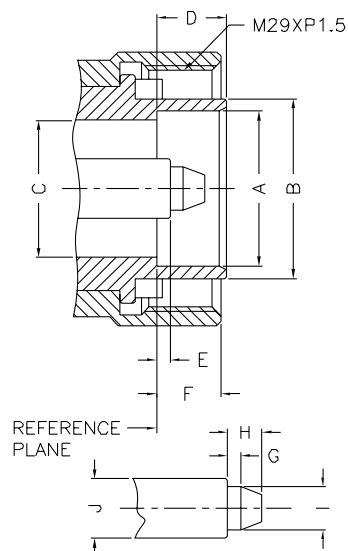
MECHANICAL SPECIFICATIONS

|                        |                                                              |
|------------------------|--------------------------------------------------------------|
| Coupling nut retention | 225 lbs. maximum                                             |
| Coupling proof torque  | 310 in-lbs. maximum                                          |
| Contact retention      | 45 lbs. minimum                                              |
| Durability (mating)    | 500 cyles minimum (for beryllium copper female contact only) |



## 7/16 COAXIAL CONNECTORS

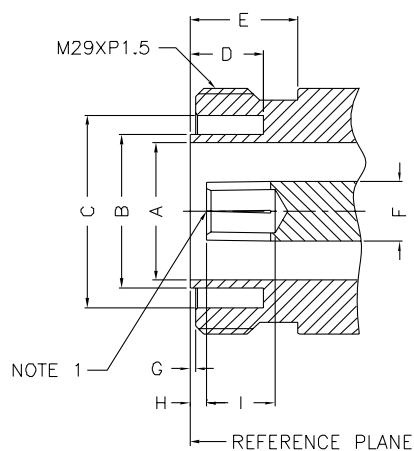
### INTERFACE MATING DIMENSIONS



#### PLUG

| Letter | Millimeters [Inches] |              |
|--------|----------------------|--------------|
|        | Minimum              | Maximum      |
| A      | 18.03 [.710]         | 18.21 [.717] |
| B      | 20.60 [.812]         | 21.40 [.843] |
| C      | 15.85 [.624]         | 16.25 [.640] |
| D      | 7.00 [.276]          | 8.00 [.315]  |
| E      | 1.47 [.058]          | 1.77 [.070]  |
| F      | 7.00 [.276]          | 9.00 [.355]  |
| G      | 1.40 [.055]          | 1.60 [.063]  |
| H      | —                    | 4.50 [.177]  |
| I      | 4.96 [.195]          | 5.04 [.199]  |
| J      | 6.97 [.275]          | 7.03 [.277]  |

#### JACK



| Letter | Millimeters [Inches] |              |
|--------|----------------------|--------------|
|        | Minimum              | Maximum      |
| A      | 15.85 [.624]         | 16.25 [.640] |
| B      | —                    | 18.00 [.709] |
| C      | 22.10 [.871]         | 22.90 [.902] |
| D      | 8.10 [.319]          | —            |
| E      | 10.00 [.394]         | —            |
| F      | 6.97 [.275]          | 7.03 [.277]  |
| G      | 0.50 [.020]          | 0.70 [.028]  |
| H      | 1.77 [.070]          | 2.07 [.082]  |
| I      | 5.00 [.197]          | —            |

NOTE 1: I.D. TO MEET VSWR AND CONTACT RESISTANCE WHEN MATED WITH 4.96/5.04 MM DIA. PIN.

## 7/16 COAXIAL CONNECTORS

All connector bodies and center contacts, unless otherwise noted, are silver-plated with no nickel undercoat.

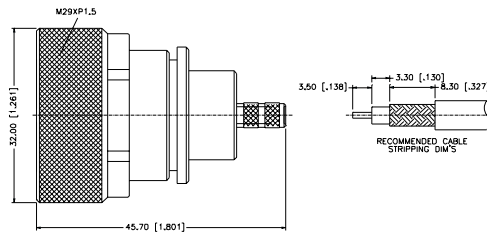
All dimensions are in millimeters [inches].

| C A B L E |                                            | G R O U P |                                             | L E G E N D |                                        |
|-----------|--------------------------------------------|-----------|---------------------------------------------|-------------|----------------------------------------|
| 01        | 58/ 58A/ 58C/ 141/ 303/<br>LMR195™/ B7806A | 06A       | 179/ U DOUBLE BRAIDED                       | 09          | B8227/ 89207                           |
| 01A       | 55/ 142/ 223/ 400                          | 07        | 8/ 8A/ 213/ 393                             | 10          | .141 SEMI-RIGID/ 402/U                 |
| 01B       | LMR200™/ B7807A                            | 07A       | 214                                         | 11          | .085 SEMI-RIGID/ 405/U                 |
| 02        | 58 PLENUM/THINNET/<br>122U/ B88240/ B89907 | 07B       | 8X/ LMR240™/ B7808A                         | 12          | .250 SEMI-RIGID                        |
| 03        | 59/ 62/ 140/ 210                           | 07C       | B9913/ LMR400™/<br>B7810A/ B8214            | 13          | .047 SEMI-RIGID/ B1674A                |
| 03A       | 59/ U-20AWG                                | 07D       | B89913                                      | 14          | 178/ 196                               |
| 04        | 59/ U PLENUM                               | 07E       | 11                                          | 15          | B8281/ B9231/ B9141                    |
| 04A       | 59/ U PLENUM-20AWG                         | 07F       | 11/ U-14AWG/ B8213/<br>B9292/ B7731/ B1859A | 15A         | B88281                                 |
| 05        | 174/ 188A/ 316/ B7805A                     | 08        | 6/ 143/ 212                                 | 16          | 180/ 195/ 122/ B8218/<br>B1865A/ B1855 |
| 05A       | 316/ U DOUBLE BRAIDED                      | 08A       | B1694A/ B9248                               | 17          | LMR600™                                |
| 06        | 179/ 187/ B9221                            | 08B       | 6 PLENUM/ B1695A                            | 18          | AT&T734A/ B1505A                       |
|           |                                            |           |                                             | 19          | AT&T735A/ B735A1                       |

## 7/16 STRAIGHT PLUGS

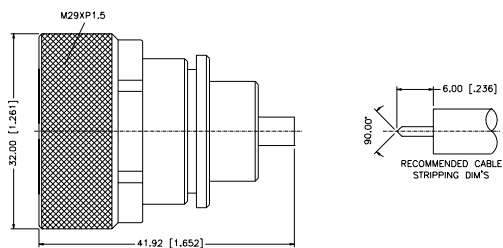
### STRAIGHT CRIMP PLUG — FLEXIBLE CABLE

| P.N.   | Cable Group | Finish | Insulation | Impedance | Crimp Tool |
|--------|-------------|--------|------------|-----------|------------|
| 272103 | 01          | Silver | Teflon     | 50        | A          |
| 272104 | 01A         | Silver | Teflon     | 50        | A          |
| 272172 | 05          | Silver | Teflon     | 50        | B          |
| 272105 | 07          | Silver | Teflon     | 50        | D          |
| 272106 | 07A         | Silver | Teflon     | 50        | D          |
| 272107 | 07C         | Silver | Teflon     | 50        | D          |
| 272108 | 17          | Silver | Teflon     | 50        | .610 HEX   |



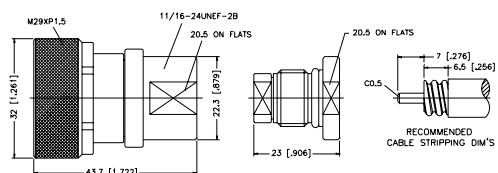
### STRAIGHT SOLDER PLUG — SEMI-RIGID CABLE

| P.N.   | Cable Group | Finish | Insulation | Impedance | Crimp Tool |
|--------|-------------|--------|------------|-----------|------------|
| 272109 | 10          | Silver | Teflon     | 50        | N/A        |
| 272163 | 11          | Silver | Teflon     | 50        | N/A        |
| 272110 | 12          | Silver | Teflon     | 50        | N/A        |



### STRAIGHT CLAMP PLUG — SUPER FLEX CABLE

| P.N.   | Cable Group                         | Finish | Insulation | Impedance | Crimp Tool |
|--------|-------------------------------------|--------|------------|-----------|------------|
| 272138 | 3/8" SUPER FLEX ANDREWS FSJ HELICAL | Silver | Teflon     | 50        | N/A        |
| 272139 | 1/2" SUPER FLEX ANDREWS FSJ HELICAL | Silver | Teflon     | 50        | N/A        |
| 272164 | 7/8" SUPER FLEX ANDREWS FSJ HELICAL | Silver | Teflon     | 50        | N/A        |



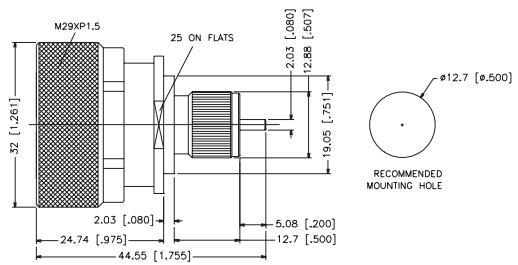
For Crimp Tool information, see page 183.

## 7/16 STRAIGHT PLUGS

For Cable Group Legend, see page 137

### STRAIGHT PLUG — PRESS FIT

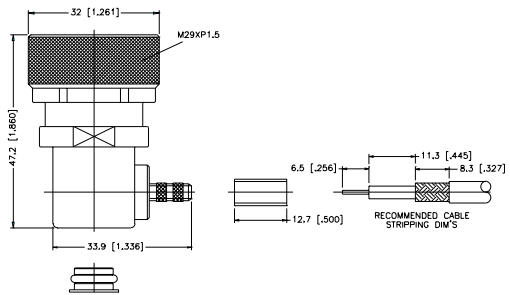
| P.N.   | Cable Group | Finish | Insulation | Impedance | Crimp Tool |
|--------|-------------|--------|------------|-----------|------------|
| 272178 | N/A         | Silver | Teflon     | 50        | N/A        |



## 7/16 RIGHT ANGLE PLUGS

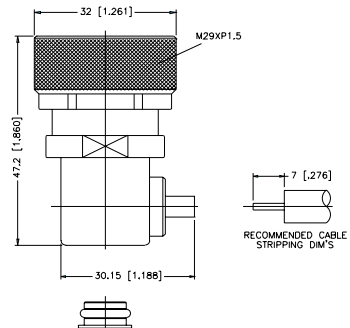
### RIGHT ANGLE CRIMP PLUG — FLEXIBLE CABLE

| P.N.   | Cable Group | Finish | Insulation | Impedance | Crimp Tool |
|--------|-------------|--------|------------|-----------|------------|
| 272111 | 01          | Silver | Teflon     | 50        | A          |
| 272112 | 01A         | Silver | Teflon     | 50        | A          |
| 272113 | 07          | Silver | Teflon     | 50        | D          |
| 272114 | 07A         | Silver | Teflon     | 50        | D          |
| 272115 | 07C         | Silver | Teflon     | 50        | D          |
| 272116 | 17          | Silver | Teflon     | 50        | .610 HEX   |



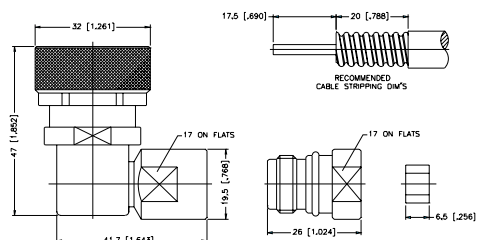
### RIGHT ANGLE SOLDER PLUG — SEMI-RIGID CABLE

| P.N.   | Cable Group | Finish | Insulation | Impedance | Crimp Tool |
|--------|-------------|--------|------------|-----------|------------|
| 272117 | 10          | Silver | Teflon     | 50        | N/A        |
| 272165 | 11          | Silver | Teflon     | 50        | N/A        |
| 272118 | 12          | Silver | Teflon     | 50        | N/A        |



### RIGHT ANGLE CLAMP PLUG — SUPER FLEX CABLE

| P.N.   | Cable Group     | Finish | Insulation | Impedance | Crimp Tool |
|--------|-----------------|--------|------------|-----------|------------|
| 272136 | 3/8" SUPER FLEX | Silver | Teflon     | 50        | N/A        |
| 272137 | 1/2" SUPER FLEX | Silver | Teflon     | 50        | N/A        |
| 272166 | 7/8" HELICAL    | Silver | Teflon     | 50        | N/A        |

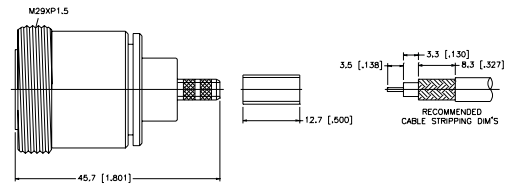
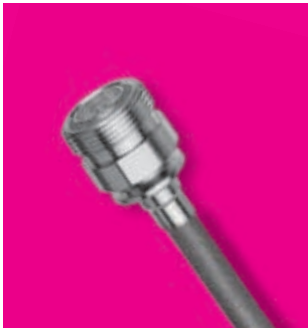


## 7/16 STRAIGHT JACKS

For Cable Group Legend, see page 137

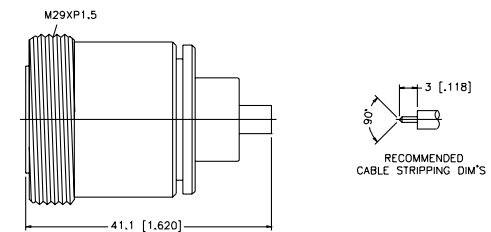
### STRAIGHT CRIMP JACK — FLEXIBLE CABLE

| P.N.   | Cable Group | Finish | Insulation | Impedance | Crimp Tool |
|--------|-------------|--------|------------|-----------|------------|
| 272140 | 01          | Silver | Teflon     | 50        | A          |
| 272141 | 01A         | Silver | Teflon     | 50        | A          |
| 272142 | 07          | Silver | Teflon     | 50        | D          |
| 272143 | 07A         | Silver | Teflon     | 50        | D          |
| 272144 | 07C         | Silver | Teflon     | 50        | D          |
| 272145 | 17          | Silver | Teflon     | 50        | .610 HEX   |



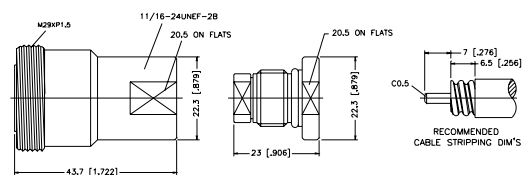
### STRAIGHT SOLDER JACKS — SEMI-RIGID CABLE

| P.N.   | Cable Group | Finish | Insulation | Impedance | Crimp Tool |
|--------|-------------|--------|------------|-----------|------------|
| 272146 | 10          | Silver | Teflon     | 50        | N/A        |
| 272167 | 11          | Silver | Teflon     | 50        | N/A        |
| 272147 | 12          | Silver | Teflon     | 50        | N/A        |



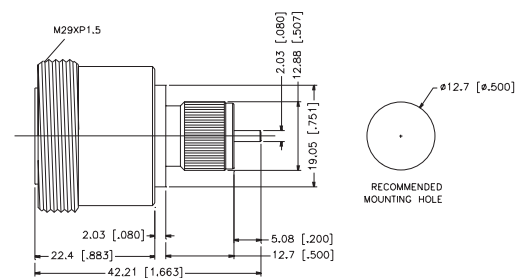
### STRAIGHT CLAMP JACK — SUPER FLEX CABLE

| P.N.   | Cable Group     | Finish | Insulation | Impedance | Crimp Tool |
|--------|-----------------|--------|------------|-----------|------------|
| 272148 | 3/8" SUPER FLEX | Silver | Teflon     | 50        | N/A        |
| 272149 | 1/2" SUPER FLEX | Silver | Teflon     | 50        | N/A        |
| 272168 | 7/8" HELICAL    | Silver | Teflon     | 50        | N/A        |



### STRAIGHT JACK — PRESS FIT

| P.N.   | Cable Group | Finish | Insulation | Impedance | Crimp Tool |
|--------|-------------|--------|------------|-----------|------------|
| 272179 | N/A         | Silver | Teflon     | 50        | N/A        |



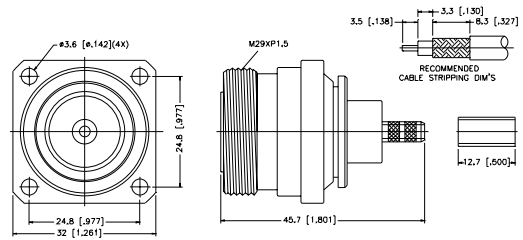
## 7/16 PANEL JACKS

For Cable Group Legend, see page 137

### PANEL CRIMP JACK — FLEXIBLE CABLE

| P.N.   | Cable Group | Finish | Insulation | Impedance | Crimp Tool |
|--------|-------------|--------|------------|-----------|------------|
| 272119 | 01          | Silver | Teflon     | 50        | A          |
| 272120 | 01A         | Silver | Teflon     | 50        | A          |
| 272121 | 07          | Silver | Teflon     | 50        | D          |
| 272122 | 07A         | Silver | Teflon     | 50        | D          |
| 272123 | 07C         | Silver | Teflon     | 50        | D          |
| 272124 | 17          | Silver | Teflon     | 50        | .610 HEX   |

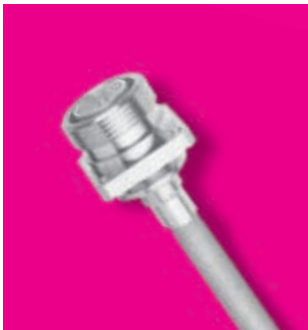
Remark: For O-ring gasket, add -10 to part number



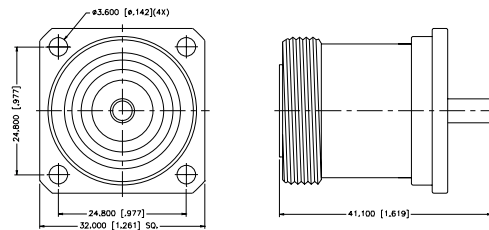
### PANEL SOLDER JACK — SEMI-RIGID CABLE

| P.N.   | Cable Group | Finish | Insulation | Impedance | Crimp Tool |
|--------|-------------|--------|------------|-----------|------------|
| 272100 | 10          | Silver | Teflon     | 50        | N/A        |
| 272169 | 11          | Silver | Teflon     | 50        | N/A        |
| 272101 | 12          | Silver | Teflon     | 50        | N/A        |

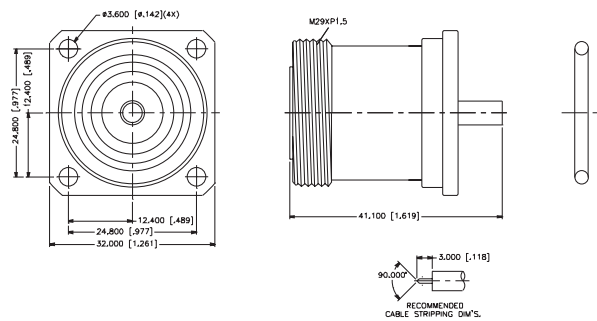
Remark: For O-ring gasket, add -10 to part number



272100



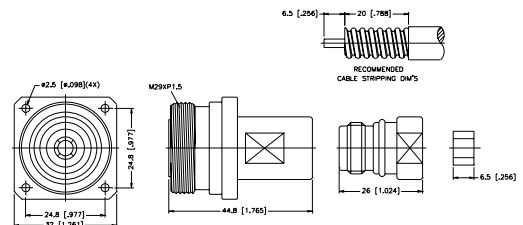
272100-10



### PANEL CLAMP JACK — SUPER FLEX CABLE

| P.N.   | Cable Group     | Finish | Insulation | Impedance | Crimp Tool |
|--------|-----------------|--------|------------|-----------|------------|
| 272128 | 3/8" SUPER FLEX | Silver | Teflon     | 50        | N/A        |
| 272129 | 1/2" SUPER FLEX | Silver | Teflon     | 50        | N/A        |

Remark: For O-ring gasket, add -10 to part number

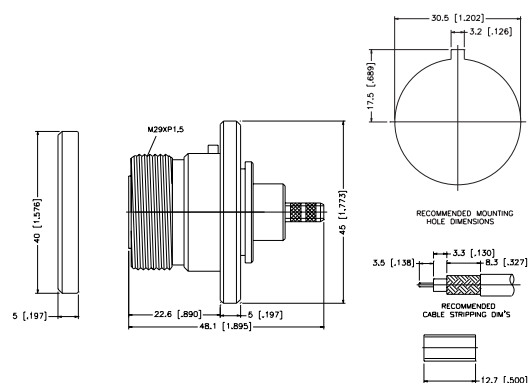


## 7/16 BULKHEAD JACKS

For Cable Group Legend, see page 137

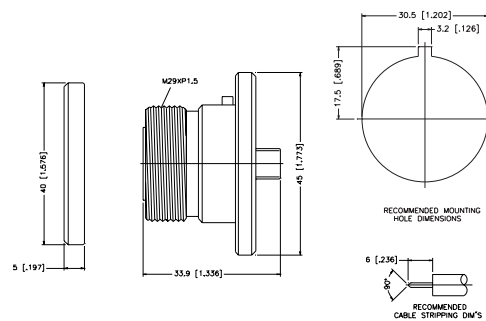
### BULKHEAD CRIMP JACK — FLEXIBLE CABLE

| P.N.   | Cable Group | Finish | Insulation | Impedance | Crimp Tool |
|--------|-------------|--------|------------|-----------|------------|
| 272151 | 01          | Silver | Teflon     | 50        | A          |
| 272152 | 01A         | Silver | Teflon     | 50        | A          |
| 272153 | 07          | Silver | Teflon     | 50        | D          |
| 272154 | 07A         | Silver | Teflon     | 50        | D          |
| 272155 | 07C         | Silver | Teflon     | 50        | D          |
| 272156 | 17          | Silver | Teflon     | 50        | .610 HEX   |



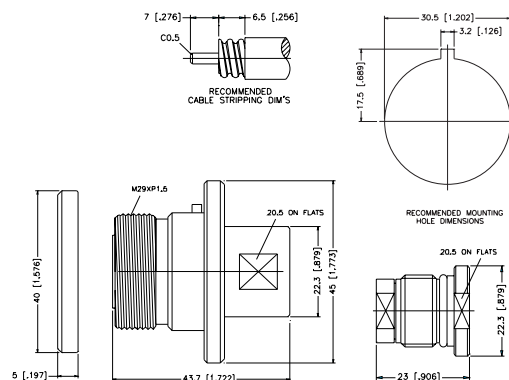
### BULKHEAD SOLDER JACK — SEMI-RIGID CABLE

| P.N.   | Cable Group | Finish | Insulation | Impedance | Crimp Tool |
|--------|-------------|--------|------------|-----------|------------|
| 272158 | 10          | Silver | Teflon     | 50        | N/A        |
| 272157 | 11          | Silver | Teflon     | 50        | N/A        |
| 272159 | 12          | Silver | Teflon     | 50        | N/A        |



### BULKHEAD CLAMP JACK — CORRUGATED CABLE

| P.N.   | Cable Group     | Finish | Insulation | Impedance | Crimp Tool |
|--------|-----------------|--------|------------|-----------|------------|
| 272160 | 3/8" SUPER FLEX | Silver | Teflon     | 50        | N/A        |
| 272161 | 1/2" SUPER FLEX | Silver | Teflon     | 50        | N/A        |
| 272162 | 7/8" HELICAL    | Silver | Teflon     | 50        | N/A        |

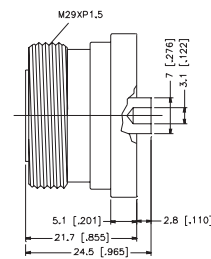
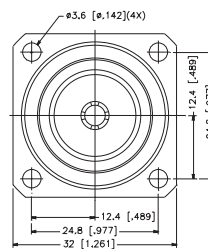


## 7/16 PANEL RECEPTACLES

For Cable Group Legend, see page 137

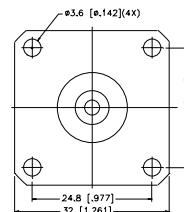
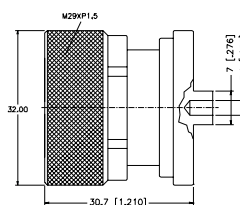
### PANEL JACK RECEPTACLES

| P.N.   | Cable Group | Finish                               | Insulation | Impedance | Crimp Tool |
|--------|-------------|--------------------------------------|------------|-----------|------------|
| 272130 | N/A         | Silver SOLDER CONTACT                | Teflon     | 50        | N/A        |
| 272131 | N/A         | Silver THREADED CONTACT              | Teflon     | 50        | N/A        |
| 272173 | N/A         | Silver SOLDER CONTACT, 1 INCH FLANGE | Teflon     | 50        | N/A        |



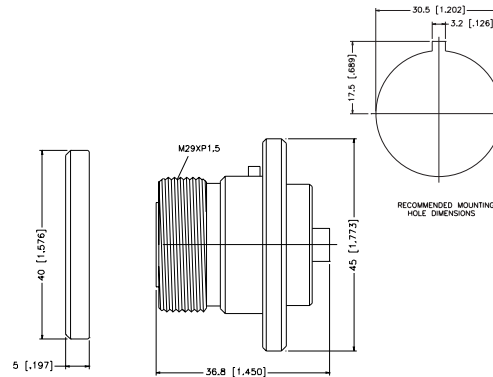
### PANEL PLUG RECEPTACLES

| P.N.   | Cable Group | Finish                  | Insulation | Impedance | Crimp Tool |
|--------|-------------|-------------------------|------------|-----------|------------|
| 272132 | N/A         | Silver SOLDER CONTACT   | Teflon     | 50        | N/A        |
| 272133 | N/A         | Silver THREADED CONTACT | Teflon     | 50        | N/A        |



### BULKHEAD RECEPTACLES

| P.N.   | Cable Group | Finish | Insulation | Impedance | Crimp Tool |
|--------|-------------|--------|------------|-----------|------------|
| 272171 | N/A         | Silver | Teflon     | 50        | N/A        |





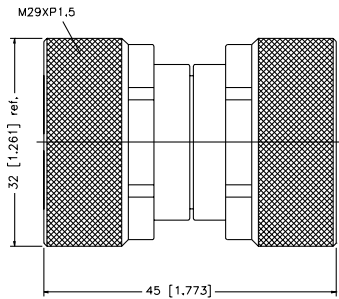
7/16 ADAPTERS

For Cable Group Legend, see page 137

7/16 COAXIAL CONNECTORS

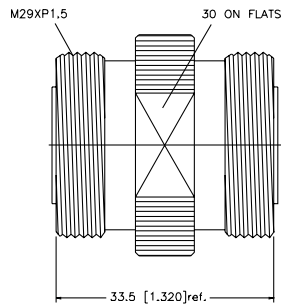
PLUG-TO-PLUG ADAPTER

| P.N.   | Cable Group | Finish | Insulation | Impedance | Crimp Tool |
|--------|-------------|--------|------------|-----------|------------|
| 272134 | N/A         | Silver | Teflon     | 50        | N/A        |



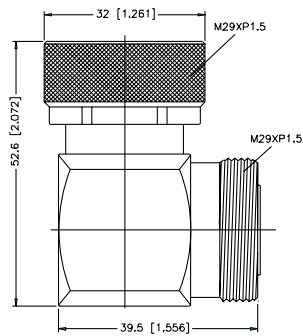
JACK-TO-JACK ADAPTER

| P.N.   | Cable Group | Finish | Insulation | Impedance | Crimp Tool |
|--------|-------------|--------|------------|-----------|------------|
| 272135 | N/A         | Silver | Teflon     | 50        | N/A        |



RIGHT ANGLE PLUG-TO-JACK ADAPTER

| P.N.   | Cable Group | Finish | Insulation | Impedance | Crimp Tool |
|--------|-------------|--------|------------|-----------|------------|
| 272150 | N/A         | Silver | Teflon     | 50        | N/A        |



JACK-TO-JACK BULKHEAD ADAPTER

| P.N.   | Cable Group | Finish | Insulation | Impedance | Crimp Tool |
|--------|-------------|--------|------------|-----------|------------|
| 272174 | N/A         | Silver | Teflon     | 50        | N/A        |

