

# Series 970 PowerTrip™ Connectors and Accessories

## 380-105 EMI/RFI Backshell (Non-Environmental)



### 380P\*105 EMI/RFI BACKSHELL



EMI/RFI backshell features ground rings for cable braid shield termination. Spin coupling with anti-decoupling ratchet. Splined connector interface. Heavy duty saddle clamp. Aluminum or stainless steel. Stainless steel telescoping clamp screws. Meets environmental, electrical and mechanical requirements of AS85049 Category 3A Heavy Duty. Assembly procedure conforms to Glenair Type F shield terminations.

#### MATERIALS AND FINISHES

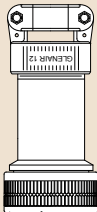
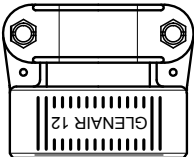
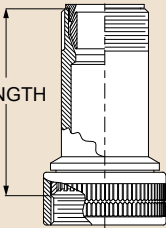
Adapters, crimp rings, follower, coupling nut: aluminum or stainless steel. See **How To Order** for finish options.

Hardware: stainless steel

#### INSTALLATION TORQUE

| Shell Size | Recommended Installation Torque<br>Inch-Pounds ± 5 |
|------------|----------------------------------------------------|
| 18         | 116                                                |
| 20, 24     | 136                                                |
| 28, 32, 36 | 148                                                |
| 40         | 164                                                |

#### HOW TO ORDER

| SERIES                                                                                                                                      | SHELL MATERIAL / FINISH                                                                                                                                                                                                                                                                                                                                                                                                      | SHELL SIZE                                                                                        | STRAIN RELIEF CODE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | LENGTH CODE |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|--|--|--|------|--|------|--|-----|-----|-----|-----|-----|------|-----|------|------|-----|------|-----|------|------|-----|------|-----|------|------|-----|------|------|------|------|-----|------|------|------|------|-----|------|------|-------|------|-----|-------|------|-------|------|-----|-------|------|-------|------|-----|-------|------|-------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------|--|-----|-----|---|-----|----|---|-----|----|---|-----|-----|---|-----|-----|----|-----|-----|----|-----|-----|----|-----|-----|----|-----|-----|----|-----|-----|----|-----|-----|----|-----|-----|
| <div>380PS105</div> <div>Straight Exit</div> <div></div> | <div>ME</div> <div>Aluminum / Electroless Nickel</div> <div>RoHS Compliant</div> <div>NF</div> <div>Aluminum / Cadmium with Olive Drab Chromate</div> <div>ZR</div> <div>Aluminum / Zinc-Nickel with Non-Reflective Black Chromate</div> <div>RoHS Compliant</div> <div>MT</div> <div>Aluminum / Nickel-PTFE</div> <div>RoHS Compliant</div> <div>Z1</div> <div>Stainless Steel / Passivated</div> <div>RoHS Compliant</div> | <div>18</div> <div>20</div> <div>24</div> <div>28</div> <div>32</div> <div>36</div> <div>40</div> | <div></div> <div>Saddle Clamp</div> <table><thead><tr><th rowspan="3">Code</th><th colspan="4">Cable Diameter</th></tr><tr><th colspan="2">Min.</th><th colspan="2">Max.</th></tr><tr><th>In.</th><th>mm.</th><th>In.</th><th>mm.</th></tr></thead><tbody><tr><td>06H</td><td>.250</td><td>6.4</td><td>.437</td><td>11.1</td></tr><tr><td>08H</td><td>.312</td><td>7.9</td><td>.562</td><td>14.3</td></tr><tr><td>10H</td><td>.350</td><td>8.9</td><td>.625</td><td>15.9</td></tr><tr><td>12H</td><td>.500</td><td>12.7</td><td>.750</td><td>19.1</td></tr><tr><td>16H</td><td>.625</td><td>15.9</td><td>.937</td><td>23.8</td></tr><tr><td>20H</td><td>.875</td><td>22.2</td><td>1.250</td><td>31.8</td></tr><tr><td>24H</td><td>1.000</td><td>25.4</td><td>1.375</td><td>34.9</td></tr><tr><td>28H</td><td>1.250</td><td>31.8</td><td>1.625</td><td>41.3</td></tr><tr><td>32H</td><td>1.437</td><td>36.5</td><td>1.875</td><td>47.6</td></tr></tbody></table> | Code        | Cable Diameter |  |  |  | Min. |  | Max. |  | In. | mm. | In. | mm. | 06H | .250 | 6.4 | .437 | 11.1 | 08H | .312 | 7.9 | .562 | 14.3 | 10H | .350 | 8.9 | .625 | 15.9 | 12H | .500 | 12.7 | .750 | 19.1 | 16H | .625 | 15.9 | .937 | 23.8 | 20H | .875 | 22.2 | 1.250 | 31.8 | 24H | 1.000 | 25.4 | 1.375 | 34.9 | 28H | 1.250 | 31.8 | 1.625 | 41.3 | 32H | 1.437 | 36.5 | 1.875 | 47.6 | <div>(Omit for 45° and 90° styles. Applies to 380PS105 straight exit only)</div> <div>The <b>Length Code</b> is the length of the adapter in ½ inch increments</div> <table><thead><tr><th rowspan="2">Code</th><th colspan="2">Length</th></tr><tr><th>In.</th><th>mm.</th></tr></thead><tbody><tr><td>6</td><td>3.0</td><td>76</td></tr><tr><td>7</td><td>3.5</td><td>89</td></tr><tr><td>8</td><td>4.0</td><td>102</td></tr><tr><td>9</td><td>4.5</td><td>114</td></tr><tr><td>10</td><td>5.0</td><td>127</td></tr><tr><td>11</td><td>5.5</td><td>140</td></tr><tr><td>12</td><td>6.0</td><td>152</td></tr><tr><td>13</td><td>6.5</td><td>165</td></tr><tr><td>14</td><td>7.0</td><td>178</td></tr><tr><td>15</td><td>7.5</td><td>191</td></tr><tr><td>16</td><td>8.0</td><td>203</td></tr></tbody></table> <div></div> | Code | Length |  | In. | mm. | 6 | 3.0 | 76 | 7 | 3.5 | 89 | 8 | 4.0 | 102 | 9 | 4.5 | 114 | 10 | 5.0 | 127 | 11 | 5.5 | 140 | 12 | 6.0 | 152 | 13 | 6.5 | 165 | 14 | 7.0 | 178 | 15 | 7.5 | 191 | 16 | 8.0 | 203 |
| Code                                                                                                                                        | Cable Diameter                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
|                                                                                                                                             | Min.                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                   | Max.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
|                                                                                                                                             | In.                                                                                                                                                                                                                                                                                                                                                                                                                          | mm.                                                                                               | In.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | mm.         |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
| 06H                                                                                                                                         | .250                                                                                                                                                                                                                                                                                                                                                                                                                         | 6.4                                                                                               | .437                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 11.1        |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
| 08H                                                                                                                                         | .312                                                                                                                                                                                                                                                                                                                                                                                                                         | 7.9                                                                                               | .562                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 14.3        |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
| 10H                                                                                                                                         | .350                                                                                                                                                                                                                                                                                                                                                                                                                         | 8.9                                                                                               | .625                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 15.9        |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
| 12H                                                                                                                                         | .500                                                                                                                                                                                                                                                                                                                                                                                                                         | 12.7                                                                                              | .750                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 19.1        |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
| 16H                                                                                                                                         | .625                                                                                                                                                                                                                                                                                                                                                                                                                         | 15.9                                                                                              | .937                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 23.8        |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
| 20H                                                                                                                                         | .875                                                                                                                                                                                                                                                                                                                                                                                                                         | 22.2                                                                                              | 1.250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 31.8        |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
| 24H                                                                                                                                         | 1.000                                                                                                                                                                                                                                                                                                                                                                                                                        | 25.4                                                                                              | 1.375                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 34.9        |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
| 28H                                                                                                                                         | 1.250                                                                                                                                                                                                                                                                                                                                                                                                                        | 31.8                                                                                              | 1.625                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 41.3        |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
| 32H                                                                                                                                         | 1.437                                                                                                                                                                                                                                                                                                                                                                                                                        | 36.5                                                                                              | 1.875                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 47.6        |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
| Code                                                                                                                                        | Length                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
|                                                                                                                                             | In.                                                                                                                                                                                                                                                                                                                                                                                                                          | mm.                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
| 6                                                                                                                                           | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                          | 76                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
| 7                                                                                                                                           | 3.5                                                                                                                                                                                                                                                                                                                                                                                                                          | 89                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
| 8                                                                                                                                           | 4.0                                                                                                                                                                                                                                                                                                                                                                                                                          | 102                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
| 9                                                                                                                                           | 4.5                                                                                                                                                                                                                                                                                                                                                                                                                          | 114                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
| 10                                                                                                                                          | 5.0                                                                                                                                                                                                                                                                                                                                                                                                                          | 127                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
| 11                                                                                                                                          | 5.5                                                                                                                                                                                                                                                                                                                                                                                                                          | 140                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
| 12                                                                                                                                          | 6.0                                                                                                                                                                                                                                                                                                                                                                                                                          | 152                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
| 13                                                                                                                                          | 6.5                                                                                                                                                                                                                                                                                                                                                                                                                          | 165                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
| 14                                                                                                                                          | 7.0                                                                                                                                                                                                                                                                                                                                                                                                                          | 178                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
| 15                                                                                                                                          | 7.5                                                                                                                                                                                                                                                                                                                                                                                                                          | 191                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
| 16                                                                                                                                          | 8.0                                                                                                                                                                                                                                                                                                                                                                                                                          | 203                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
| Sample Part Number                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |
| 380PS105                                                                                                                                    | ZR                                                                                                                                                                                                                                                                                                                                                                                                                           | 24                                                                                                | 12H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8           |                |  |  |  |      |  |      |  |     |     |     |     |     |      |     |      |      |     |      |     |      |      |     |      |     |      |      |     |      |      |      |      |     |      |      |      |      |     |      |      |       |      |     |       |      |       |      |     |       |      |       |      |     |       |      |       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |        |  |     |     |   |     |    |   |     |    |   |     |     |   |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |    |     |     |

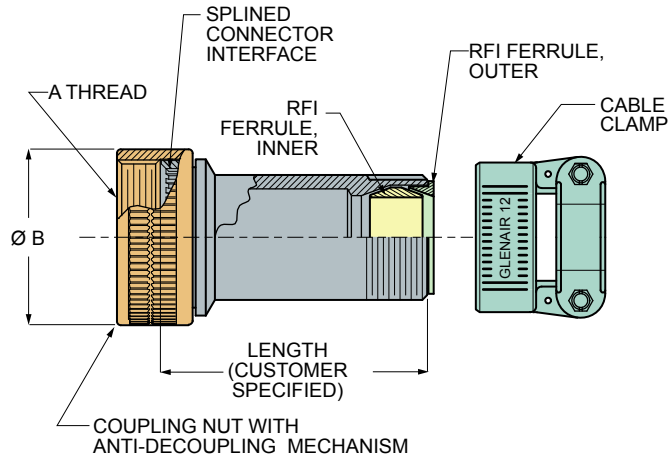


# Series 970 PowerTrip™ Connectors and Accessories

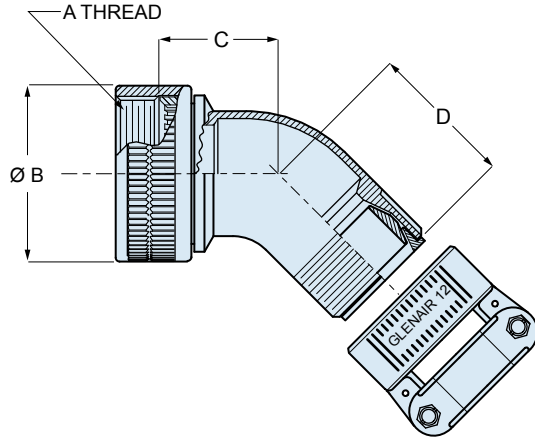
## 380-105 EMI/RFI Backshell (Non-Environmental)

### 380PS105 STRAIGHT EXIT EMI/RFI BACKSHELL

| Shell Size | A Thread          | ø B Max. |      |
|------------|-------------------|----------|------|
|            |                   | In.      | mm.  |
| 18         | 1.125-18 UNEF-2B  | 1.39     | 35.3 |
| 20         | 1.250-18 UNEF-2B  | 1.53     | 38.9 |
| 24         | 1.4375-18 UNEF-2B | 1.72     | 43.7 |
| 28         | 1.8125-16 UN-2B   | 2.13     | 54.1 |
| 32         | 2.0625-16 UNS-2B  | 2.35     | 59.7 |
| 36         | 2.250-16 UN-2B    | 2.59     | 65.8 |
| 40         | 2.500-16 UN-2B    | 2.87     | 70.6 |

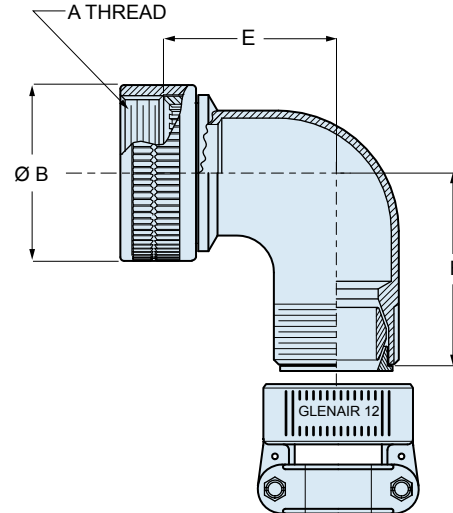


### 380PM105 45° EXIT DIMENSIONS



| Shell Size | A Thread Class 2B | ø B Max. |      | C Max. |      | D Max. |      |
|------------|-------------------|----------|------|--------|------|--------|------|
|            |                   | In.      | mm.  | In.    | mm.  | In.    | mm.  |
| 18         | 1.125-18 UNEF     | 1.39     | 35.3 | 1.250  | 31.8 | 1.156  | 29.4 |
| 20         | 1.250-18 UNEF     | 1.53     | 38.9 | 1.312  | 33.3 | 1.219  | 31.0 |
| 24         | 1.4375-18 UNEF    | 1.72     | 43.7 | 1.406  | 35.7 | 1.312  | 33.3 |
| 28         | 1.8125-16 UN      | 2.13     | 54.1 | 1.500  | 38.1 | 1.625  | 41.3 |
| 32         | 2.0625-16 UNS     | 2.35     | 59.7 | 1.675  | 42.5 | 1.945  | 49.4 |
| 36         | 2.250-16 UN       | 2.59     | 65.8 | 1.799  | 45.7 | 2.069  | 52.6 |
| 40         | 2.500-16 UN       | 2.87     | 70.6 | 1.861  | 47.3 | 2.131  | 54.1 |

### 380PN105 90° EXIT



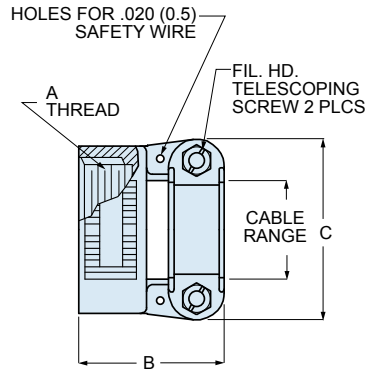
| Shell Size | A Thread Class 2B | ø B Max. |      | E Max. |      | F Max. |      |
|------------|-------------------|----------|------|--------|------|--------|------|
|            |                   | In.      | mm.  | In.    | mm.  | In.    | mm.  |
| 18         | 1.125-18 UNEF     | 1.39     | 35.3 | 1.906  | 48.4 | 1.812  | 46.0 |
| 20         | 1.250-18 UNEF     | 1.53     | 38.9 | 2.031  | 51.6 | 1.938  | 49.2 |
| 24         | 1.4375-18 UNEF    | 1.72     | 43.7 | 2.281  | 57.9 | 2.188  | 55.6 |
| 28         | 1.8125-16 UN      | 2.13     | 54.1 | 2.531  | 64.3 | 2.625  | 66.7 |
| 32         | 2.0625-16 UNS     | 2.35     | 59.7 | 2.625  | 66.7 | 2.895  | 73.5 |
| 36         | 2.250-16 UN       | 2.59     | 65.8 | 2.875  | 73.0 | 3.145  | 79.9 |
| 40         | 2.500-16 UN       | 2.87     | 70.6 | 3.025  | 76.8 | 3.295  | 83.7 |

## Accessories

### 380P\*105 EMI/RFI Backshell (Non-Environmental)



#### SADDLE CLAMP DIMENSIONS

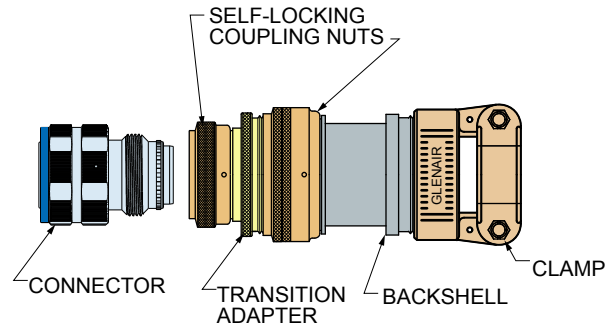


| Clamp<br>Size | Cable Range |      |       |      | A Thread<br>Class 2B | B Max. |       | C Max. |      |
|---------------|-------------|------|-------|------|----------------------|--------|-------|--------|------|
|               | Min.        |      | Max.  |      |                      |        |       |        |      |
|               | In.         | mm.  | In.   | mm.  |                      | In.    | mm.   | In.    | mm.  |
| 06H           | .250        | 6.4  | .437  | 11.1 | .750-20UNEF          | 1.301  | 33.04 | 1.145  | 29.1 |
| 08H           | .312        | 7.9  | .562  | 14.3 | .875-20UNEF          | 1.301  | 33.04 | 1.332  | 33.8 |
| 10H           | .350        | 8.9  | .625  | 15.9 | 1.000-20UNEF         | 1.301  | 33.04 | 1.332  | 33.8 |
| 12H           | .500        | 12.7 | .750  | 19.1 | 1.1875-18UNEF        | 1.332  | 33.83 | 1.551  | 39.4 |
| 16H           | .625        | 15.9 | .937  | 23.8 | 1.4375-18UNEF        | 1.426  | 36.22 | 1.770  | 45.0 |
| 20H           | .875        | 22.2 | 1.250 | 31.8 | 1.750-18UNS          | 1.613  | 40.97 | 2.113  | 53.7 |
| 24H           | 1.000       | 25.4 | 1.375 | 34.9 | 2.000-18UNS          | 1.645  | 41.78 | 2.363  | 60.0 |
| 28H           | 1.250       | 31.8 | 1.625 | 41.3 | 2.250-16UN           | 1.920  | 48.77 | 2.770  | 70.4 |
| 32H           | 1.437       | 36.5 | 1.875 | 47.6 | 2.500-16UN           | 1.920  | 48.77 | 3.020  | 76.7 |

#### ALTERNATE CONFIGURATION FOR LARGE CABLES

If the cable range exceeds the inside diameter of the backshell shown in the table at right, the backshell will be supplied with a **transition adapter** and a second coupling nut. This style of backshell is called a **Style 2**. The transition adapter attaches to the connector. The backshell and clamp fit over the cable jacket. On straight exit backshells, the transition adapter does not affect the length. On 45° and 90° versions the transition adapter adds 1.00 inch (25.4mm) maximum to the backshell length.

| Shell Size | Backshell Inside Diameter |      |
|------------|---------------------------|------|
|            | In.                       | mm.  |
| 18         | .72                       | 18.3 |
| 20         | .85                       | 21.7 |
| 24         | 1.04                      | 26.4 |
| 28         | 1.35                      | 34.3 |
| 32         | 1.62                      | 41.1 |
| 36         | 1.82                      | 46.3 |
| 40         | 2.05                      | 52.0 |



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