



Backshells and Accessories

390P*055 EMI+Environmental Backshell



Self-Locking

390P*055 EMI + environmental backshell fits Glenair Series 970 PowerTrip connectors. For use with shielded jacketed cable. Cone-and-ring shield termination with two ground rings. Splined M28840-type connector coupling. Anti-decoupling mechanism provides audible detented coupling and prevents backoff under high vibration. Type H heavy duty saddle clamp has stainless steel telescoping fillister head screws and lockwashers. Meets AS85049 Category 1A water immersion (6 ft/48 hrs). Available in aluminum or stainless steel.

- EMI environmental backshell for Series 970 PowerTrip® connectors
- For shielded jacketed cable
- Self-locking coupling nut
- Heavy duty saddle clamp strain relief
- Silicone cable gland

BACKSHELLS AND ACCESSORIES

PROFILE SELECTION GUIDE

S Straight

M 45°

N 90°

HOW TO ORDER

| | | | | | |
|----------------------|-----------------|-----------|-----------|------------|-----------|
| Sample Part Number → | 390PS055 | NF | 20 | 06H | -6 |
|----------------------|-----------------|-----------|-----------|------------|-----------|

| | | |
|----------|-----------------|-------------------|
| Base P/N | Base Part No. | Profile |
| | 390PS055 | S Straight |
| | 390PM055 | M 45° |
| | 390PN055 | N 90° |

| | |
|-----------------|---|
| Material/Finish | ME = Aluminum / Electroless Nickel |
| | MT = Aluminum / Nickel PTFE |
| | NF = Aluminum / Olive Drab Cadmium |
| | TZ = Aluminum / Tin-Zinc |
| | ZR = Aluminum / Black Zinc-Nickel |
| | Z1 = Stainless Steel / Passivated |

| | |
|------------|-----------------------------|
| Shell Size | 18 20 24 28 32 36 40 |
|------------|-----------------------------|

| | |
|------------|---|
| Order Code | See Table 1, 2 or 3 for strain relief size and type |
|------------|---|

| | |
|--------|----------------------|
| Length | 6 = 3 inches |
| | 8 = 4 inches |
| | 10 = 5 inches |
| | 12 = 6 inches |
| | 14 = 7 inches |

*Applies to Profile **S** straight only.
Sizes 18–20 3.0 inches minimum, sizes 24–40 4.0 inches minimum. If selected Entry Size is greater than Maximum Entry Size (see next page), then 5 inch minimum applies.*

CONSTRUCTION

Coupling nut, adapters, saddles, gland nut, ground rings: aluminum or SST

Hardware: stainless steel/passivated

Anti-decoupling spring: thermoplastic (aluminum body) or SST (SST body)

Grommet: silicone

Cable grip: stainless steel, passivated

TABLE 1 SADDLE CLAMP

| Order Code | Cable Range | | | | Shell Size |
|------------|-------------|----------|----------|----------|------------|
| | Min. In. | Min. mm. | Max. In. | Max. mm. | |
| 04H | .125 | 3.2 | .312 | 7.9 | 18-40 |
| 06H | .250 | 6.4 | .437 | 11.1 | 18-40 |
| 08H | .387 | 9.8 | .562 | 14.3 | 18-40 |
| 10H | .350 | 8.9 | .625 | 15.9 | 18-40 |
| 12H | .500 | 12.7 | .750 | 19.1 | 20-40 |
| 16H | .625 | 15.9 | .937 | 23.8 | 24-40 |
| 20H | .875 | 22.2 | 1.250 | 31.8 | 28-40 |
| 24H | 1.000 | 25.4 | 1.375 | 34.9 | 32-40 |
| 28H | 1.250 | 31.8 | 1.625 | 41.3 | 36-40 |
| 32H | 1.437 | 36.5 | 1.875 | 47.6 | 40 |
| 36H | 1.625 | 41.3 | 2.125 | 53.9 | – |
| 40H | 1.875 | 47.6 | 2.375 | 60.3 | – |

TABLE 2 GLAND NUT

| Order Code | Max. Cable Dia. | | Shell Size |
|------------|-----------------|------|------------|
| | In. | mm. | |
| 06D | .438 | 11.1 | 18-40 |
| 08D | .562 | 14.3 | 18-40 |
| 10D | .625 | 15.9 | 18-40 |
| 12D | .750 | 19.1 | 20-40 |
| 16D | .937 | 23.8 | 24-40 |
| 20D | 1.250 | 31.8 | 28-40 |
| 24D | 1.375 | 34.9 | 32-40 |
| 28D | 1.625 | 41.3 | 36-40 |
| 32D | 1.875 | 47.6 | 40 |
| 40D | 2.375 | 60.3 | – |

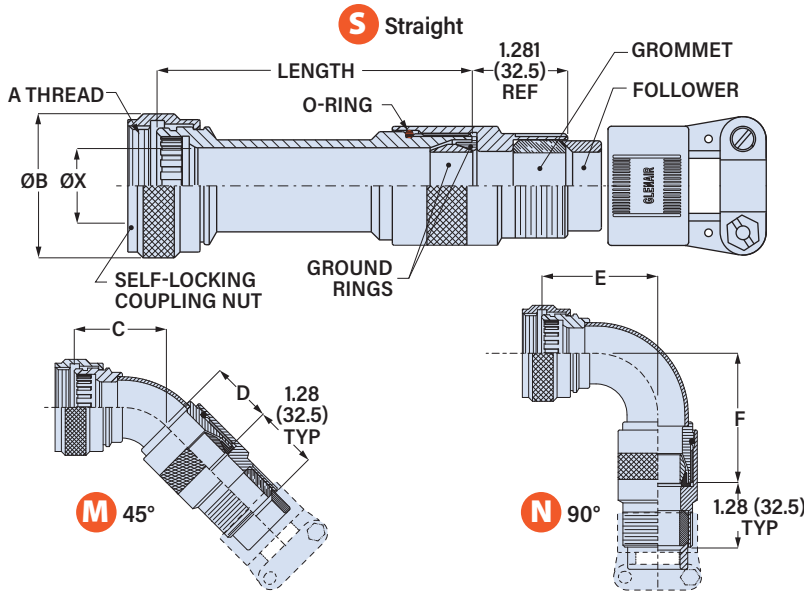
TABLE 3 WIRE MESH CORDGRIP

| Order Code | Cable Range | | | | Shell Size |
|------------|-------------|----------|----------|----------|------------|
| | Min. In. | Min. mm. | Max. In. | Max. mm. | |
| 04K | .210 | 5.3 | .310 | 7.9 | 18-40 |
| 06K | .310 | 7.8 | .438 | 11.1 | 18-40 |
| 08K | .438 | 11.1 | .500 | 12.7 | 18-40 |
| 10K | .500 | 12.7 | .625 | 15.8 | 18-40 |
| 12K | .625 | 15.9 | .750 | 19.1 | 20-40 |
| 14K | .750 | 19.1 | .875 | 22.2 | 24-40 |
| 16K | .875 | 22.2 | 1.000 | 25.4 | 24-40 |
| 20K | 1.000 | 25.4 | 1.250 | 31.8 | 28-40 |
| 24K | 1.125 | 28.6 | 1.375 | 34.9 | 32-40 |
| 28K | 1.375 | 34.9 | 1.625 | 41.2 | 36-40 |
| 32K | 1.625 | 41.3 | 1.875 | 47.6 | 40 |
| 40K | 2.125 | 53.9 | 2.375 | 60.3 | – |

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BACKSHELLS AND ACCESSORIES

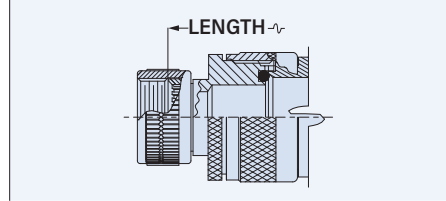


MAXIMUM ENTRY SIZE

| Shell Size | Maximum Entry Size |
|------------|--------------------|
| 18 | 10 |
| 20 | 12 |
| 24 | 16 |
| 28 | 20 |
| 32 | 24 |
| 36 | 28 |
| 40 | 32 |

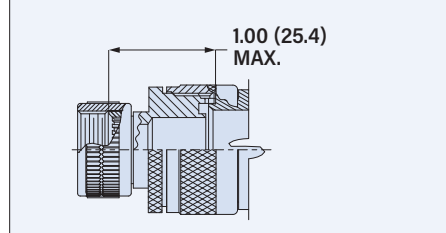
If the selected entry size exceeds the maximum size in this table, the backshell will have a front adapter. This is called a **Style 2** backshell.

STYLE 2 STRAIGHT BACKSHELL



Style 2 profile **S** straight backshell minimum length code is 10 (5 inches).

STYLE 2 45° AND 90° BACKSHELLS



For Profile **M** and **N** 45° and 90° backshells, the front adapter adds 1 inch.

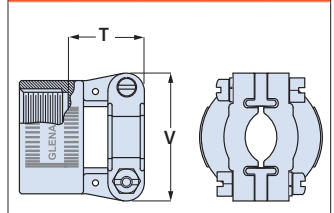
INSTALLATION TORQUE

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

DIMENSIONS

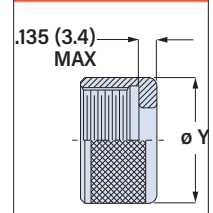
| Shell Size | A Thread -2B | Ø B Max. In. | mm. | C Max. In. | mm. | D Max. In. | mm. | E Max. In. | mm. | F Max. In. | mm. | Ø X Min. In. | mm. | Max. Entry Size |
|------------|----------------|--------------|------|------------|------|------------|-------|------------|------|------------|------|--------------|------|-----------------|
| 18 | 1.125-18 UNEF | 1.39 | 35.3 | 1.250 | 31.8 | 2.468 | 62.7 | 1.906 | 48.4 | 1.812 | 46.0 | .724 | 18.4 | 10 |
| 20 | 1.250-18 UNEF | 1.53 | 38.9 | 1.312 | 33.3 | 2.657 | 67.5 | 2.031 | 51.6 | 1.938 | 49.2 | .858 | 21.8 | 12 |
| 24 | 1.4375-18 UNEF | 1.72 | 43.7 | 1.46 | 35.7 | 3.063 | 77.8 | 2.281 | 57.9 | 2.188 | 55.6 | 1.043 | 26.5 | 16 |
| 28 | 1.8125-16 UN | 2.13 | 54.1 | 1.500 | 38.1 | 3.656 | 92.9 | 2.531 | 64.3 | 2.625 | 66.7 | 1.353 | 34.4 | 20 |
| 32 | 2.0625-16 UNS | 2.35 | 59.7 | 1.675 | 42.5 | 3.845 | 97.7 | 2.625 | 66.7 | 2.895 | 73.5 | 1.620 | 41.2 | 24 |
| 36 | 2.250-16 UN | 2.59 | 65.8 | 1.799 | 45.7 | 4.230 | 107.4 | 2.875 | 73.0 | 3.145 | 79.9 | 1.823 | 46.3 | 28 |
| 40 | 2.500-16 UN | 2.87 | 70.6 | 1.861 | 47.3 | 4.459 | 113.3 | 3.025 | 76.8 | 3.295 | 83.7 | 2.050 | 52.1 | 32 |

SADDLE CLAMP DIMENSIONS



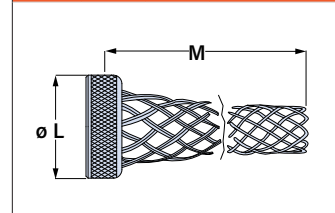
| Order Code | T Max | | V Max | |
|------------|-------|------|-------|------|
| | In. | mm. | In. | mm. |
| 04H | .780 | 19.8 | .957 | 24.3 |
| 06H | .780 | 19.8 | 1.145 | 29.1 |
| 08H | .780 | 19.8 | 1.332 | 33.8 |
| 10H | .780 | 19.8 | 1.332 | 33.8 |
| 12H | .811 | 20.6 | 1.551 | 39.4 |
| 16H | .905 | 23.0 | 1.770 | 45.0 |
| 20H | 1.092 | 27.7 | 2.113 | 53.7 |
| 24H | 1.124 | 28.5 | 2.363 | 60.0 |
| 28H | 1.399 | 35.5 | 2.770 | 70.4 |
| 32H | 1.399 | 35.5 | 3.020 | 76.7 |
| 36H | 1.750 | 44.5 | 3.250 | 82.6 |
| 40H | 1.750 | 44.5 | 3.500 | 88.9 |

GLAND NUT DIM.



| Order Code | Ø Y Max | |
|------------|---------|------|
| | In. | mm. |
| 06D | .942 | 23.9 |
| 08D | 1.067 | 27.1 |
| 10D | 1.192 | 30.3 |
| 12D | 1.380 | 35.1 |
| 16D | 1.535 | 39.0 |
| 20D | 1.848 | 46.9 |
| 24D | 2.255 | 57.3 |
| 28D | 2.505 | 63.6 |
| 32D | 2.755 | 70.0 |
| 40D | 3.255 | 82.7 |

WIRE MESH CORDGRIP DIM.



| Order Code | L Max | | M | |
|------------|-------|------|------|-----|
| | In. | mm. | In. | mm. |
| 04K | .755 | 19.2 | 2.75 | 70 |
| 06K | .942 | 23.9 | 4.00 | 101 |
| 08K | 1.067 | 27.1 | 4.12 | 105 |
| 10K | 1.192 | 30.3 | 4.37 | 111 |
| 12K | 1.380 | 35.1 | 5.00 | 127 |
| 14K | 1.563 | 39.7 | 6.00 | 152 |
| 16K | 1.563 | 39.7 | 6.25 | 158 |
| 20K | 1.875 | 47.6 | 7.25 | 184 |
| 24K | 2.225 | 57.3 | 8.00 | 203 |
| 28K | 2.505 | 63.6 | 8.50 | 216 |
| 32K | 2.755 | 70.0 | 9.00 | 229 |
| 40K | 3.225 | 82.7 | 9.50 | 241 |