

Series 806 Mil-Aero PowerPlay  
380V\*143 Metal EMI/RFI Full Radius Profile Backshell

SERIES 806 MIL-AERO POWERPLAY HIGH DENSITY



**MATERIAL/FINISH**

- Coupling nut, adapter, ferrules, clamps: see material/finish codes
- Anti-decoupling device: corrosion-resistant material
- Hardware: stainless steel, passivated

**NOTES**

- EMI/RFI protected
- Self-locking spin coupling
- Telescoping clamp screws
- Non-environmental

**SPECIFICATIONS**

- Operating temperature: codes ME, MT and Z1: -65°C to +200°C  
codes ZR, NF: -65°C to +175°C
- Shell conductivity: aluminum versions: 2.5 milliohms max.  
Stainless steel: 5 milliohms max.
- Salt spray (corrosion)  
Code ME: 96 hours  
Code NF, ZR, MT, Z1: 1000 hours
- Vibration: SAE AS85049 Category 3C
- Shock: SAE AS85049 Category 3C

| HOW TO ORDER        |  |    |    |    |   |   |
|---------------------|--|----|----|----|---|---|
| Sample Part Number  | 380VS143   | ME | 12 | 06 | H | 4 |
| Basic Part Number   | 380VS143 = EMI Backshell, Straight<br>380VM143 = EMI Backshell, 45°<br>380VN143 = EMI Backshell, 90°   |    |    |    |   |   |
| Material/ Finish    | ME = Aluminum, Electroless Nickel<br>MT = Aluminum, Ni/PTFE<br>ZR = Aluminum, Black Zinc-Nickel<br>NF = Aluminum, Olive Drab Cadmium<br>Z1 = Stainless Steel, Passivated   |    |    |    |   |   |
| Shell Size          | 11, 14, 16, 18, 20   |    |    |    |   |   |
| Cable Clamp Size    | See Table 1 for cable clamp sizes  |    |    |    |   |   |
| Strain Relief Clamp | H = Saddle bar clamp, heavy duty, with telescoping screws  |    |    |    |   |   |
| Backshell Length    | Omit for 45° and 90° versions. Applicable to 380VS143 only.<br>Length in 1/2 inch increments:<br>3 = 1 1/2 inches (min. for Style 1 shown at right)<br>4 = 2 inches (min. for Style 2 shown on following page)<br>5 = 2 1/2 inches<br>6 = 3 inches |    |    |    |   |   |

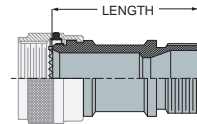
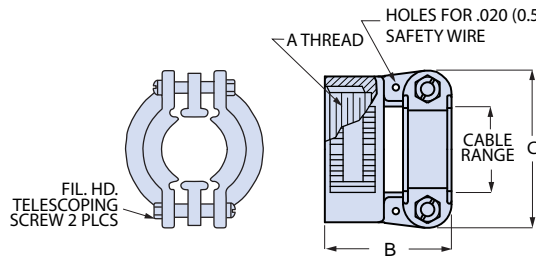
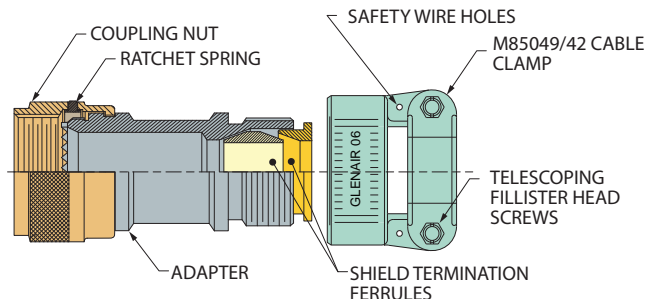


TABLE 1 CABLE CLAMP SIZE



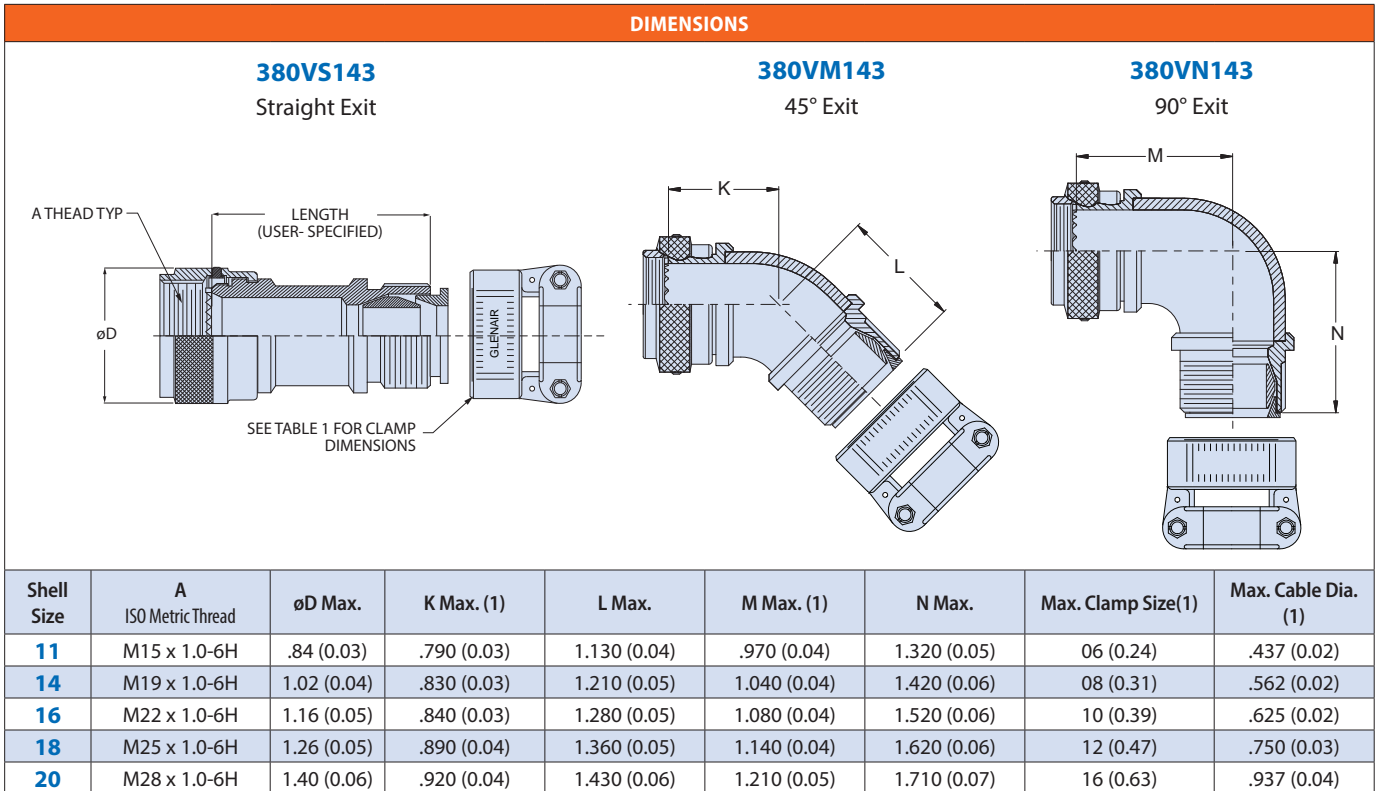
| Clamp Size | Cable Range   |               | A Thread Class 2B | B Max.        | C Max.        |
|------------|---------------|---------------|-------------------|---------------|---------------|
|            | Min.          | Max.          |                   |               |               |
| 04         | .125 (3.18)   | .312 (7.92)   | .625-24UNEF       | 1.301 (33.05) | .957 (24.31)  |
| 06         | .250 (6.35)   | .437 (11.10)  | .750-20UNEF       | 1.301 (33.05) | 1.145 (29.08) |
| 08         | .312 (7.92)   | .562 (14.27)  | .875-20UNEF       | 1.301 (33.05) | 1.332 (33.83) |
| 10         | .350 (8.89)   | .625 (15.88)  | 1.000-20UNEF      | 1.301 (33.05) | 1.332 (33.83) |
| 12         | .500 (12.70)  | .750 (19.05)  | 1.1875-18UNEF     | 1.332 (33.83) | 1.551 (39.40) |
| 16         | .625 (15.88)  | .937 (23.80)  | 1.4375-18UNEF     | 1.426 (36.22) | 1.770 (44.96) |
| 20         | .875 (22.23)  | 1.250 (31.75) | 1.750-18UNS       | 1.613 (40.97) | 2.113 (53.67) |
| 24         | 1.000 (25.40) | 1.375 (34.92) | 2.000-18UNS       | 1.645 (41.78) | 2.363 (60.02) |



Series 806 Mil-Aero PowerPlay

380V\*143 Metal EMI/RFI Full Radius Profile Backshell

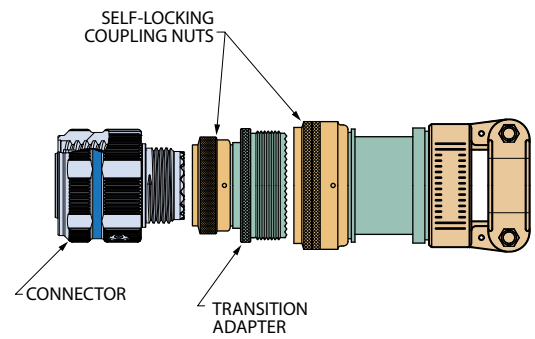
SERIES 806 MIL-AERO POWERPLAY HIGH DENSITY



(1) If the maximum clamp size is exceeded, the backshell will be a "Style 2" with a transition adapter as shown below. The K and M dimensions will be increased by 1.00 inch (25.4 mm.) maximum.

**Style 2 Backshells for Large Diameter Cables**

If the cable clamp is larger than the maximum clamp size shown in the table above, the backshell will be supplied with a **transition adapter** and a second coupling nut. This type of backshell is called a **Style 2**. The large diameter of the Style 2 backshell allows it to slide over the cable until the connector is wired and ready for backshell installation. 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.



**Style 2 Backshell**