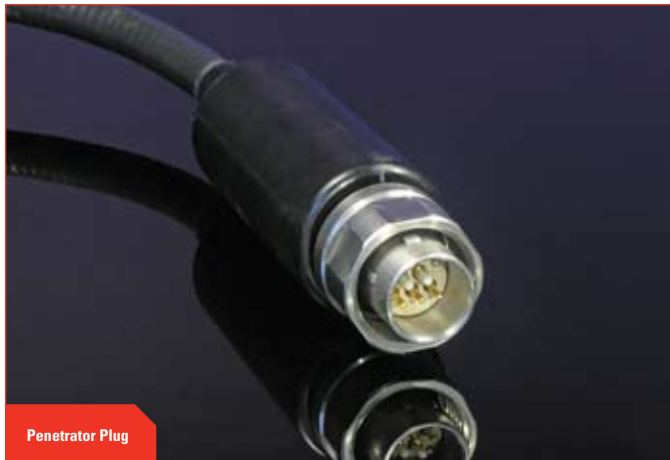


# High Pressure Hybrid Connector & Penetrator



STRAN Technologies' High Pressure Hybrid Connector & Penetrator was designed to meet the demanding environment of towed array applications. This dry-mateable, fiber optic and electrical connector, features a scoop-proof interface and doubly redundant elastomeric seal design rated to withstand a maximum hydrostatic crush pressure of 1,500psi and an operating pressure of 750psi or deployment to depths of 1,500ft of sea water.



Penetrator Plug



Penetrator Receptacle

## The Penetrator features:

- A high pressure feed-through with secondary seals in the unlikely event of primary seal failure
- An enhancement of the rugged MIL-28876 Navy shipboard plug and receptacle
- Surface mateable / underwater deployable operation
- External components exposed to working fluids (sea water, oil etc.) are 316 Stainless Steel
- Beryllium copper coupling nut available as an option for high mating cycle applications to prevent galling
- Over-molded polyurethane boot construction for added impact resistance and cable strain relief
- "Scoop Proof" interface design
- Chevron seals on individual fiber termini to protect against cable flooding failures.
- Viton™ seals throughout design
- #16 or #18 AWG copper conductor and Singlemode or Multimode Fiber options available
- Choice of fiber optic pigtail connector styles for equipment hookup, for example: ST, SC, FC and LC.
- Custom mounting hole patterns available
- Cable construction: Polyamide core, surrounded by 4 layers of high-tensile steel wire overmolded with a Polyurethane cover

MILITARY TACTICAL

MILITARY SHIPBOARD

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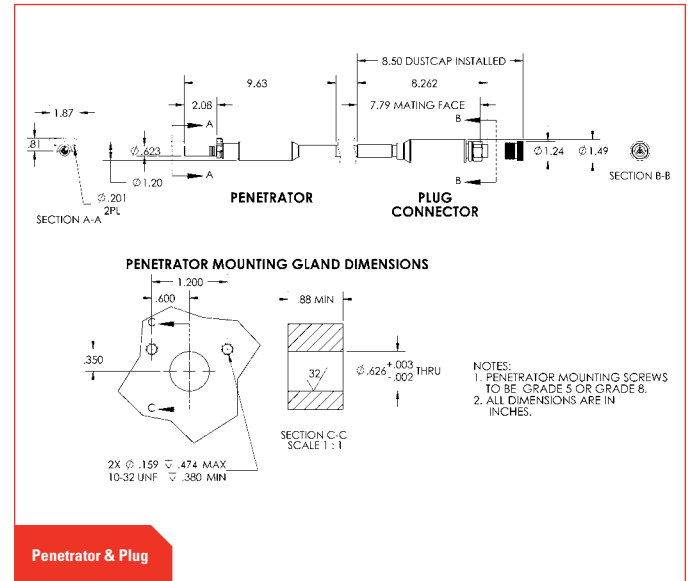
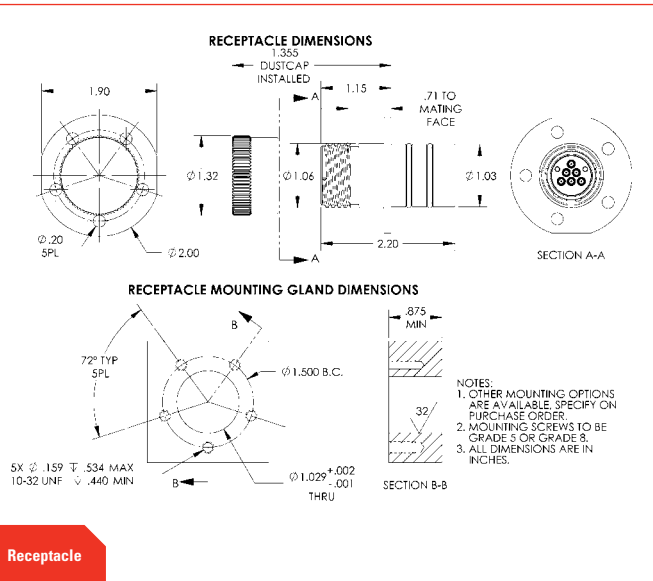
MILITARY SHIPBOARD

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## Connector Performance Criteria:

|                          |                        |
|--------------------------|------------------------|
| Operating Temperatures:  | -4°C to 40°C           |
| Storage Temperatures:    | -35°C to 60°C          |
| Operating Pressure:      | 750 psi continuous     |
| Max. Crush Pressure:     | 1,500 psi              |
| No arcing or flashover:  | @ 600VDC               |
| Insulation Resistance:   | >500MΩ @ 500VDC        |
| Shock (multi-axis):      | 30 g's                 |
| Drop Test:               | 2 meters onto concrete |
| Max. Link Loss @ 1300nm: | 1.00dB                 |
| Max. Link Loss @ 1310nm: | 1.25dB                 |