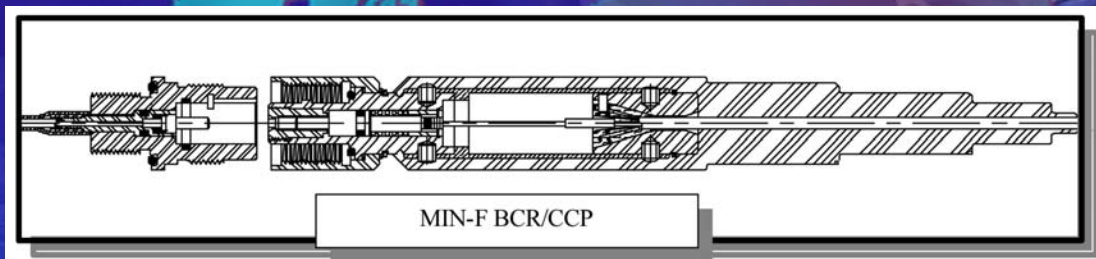


SINGLE FIBER OPTIC CONTACT CONNECTOR COMPARISON

Each of four connector sets will be described, design features and capabilities listed and a comparison chart provided.

MIN-F

The MIN-F connector family consists of CCP/BCR, CCR/BCP, CCP/BCR and penetrator versions. The plugs are available in right angle configuration. Overall diameter for the CCP is 15/16" (0.875"), and the length of the CCP starts at 4" with the option of getting longer depending on termination requirements. The alignment sleeve is field serviceable, allowing replacement or cleaning without requiring re-termination of the connector. The standard material used is 316 Stainless Steel with Phosphor Bronze engaging nuts. Optional materials include 7075-T6 Aluminum and Ti 6AL-4v. Pressure rating for the Stainless Steel version is 10,000 psi and 20,000 psi for the Titanium version. All versions share a dual o-ring seal at the connector interface. Optical contacts in all versions are sealed with o-rings internally and externally. A wide variety of terminations are available including strength terminations and many different cable sizes can be accommodated. The specified optical loss for these connector sets is <1.0dB. SEA CON[®] has supplied these to several customers in both single and multi-mode.



MMG

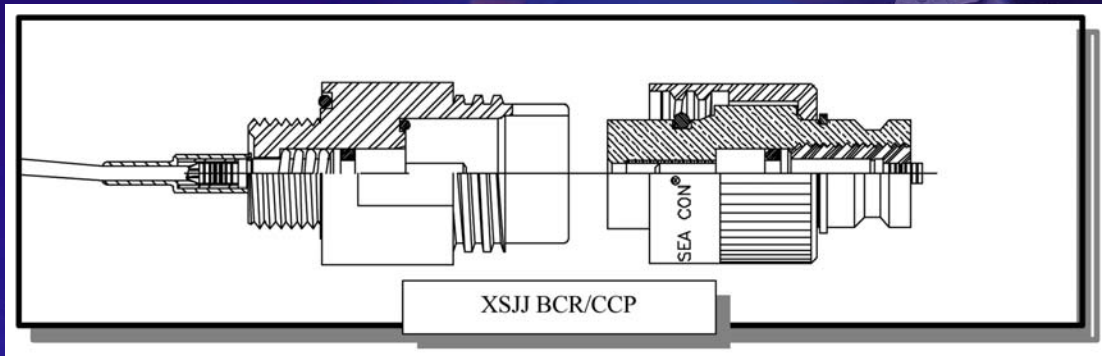
The MMG connectors are available as CCP/BCR, CCP/FCR and penetrators. The plugs are available in right angle configuration. Overall diameter of the CCP is 1/2" (0.50"), and the length of the CCP is approximately 3 3/4" (3.75") including boot. Modular design allows configuration changes to be made easily. The standard material used is Titanium 6AL-4v with Copper Alloy engaging nuts. Optional materials include 6061-T6 Aluminum and 316 Stainless Steel. Pressure rating for the Titanium versions is 13,500 psi and 3,000 psi for the Aluminum. All versions share a dual o-ring seal at the connector interface. The optical contact in the CCP is sealed with o-rings internally and externally. Several terminations are available, including strength terminations and different cable sizes can be accommodated. The specified optical loss for these connectors sets is <0.5dB. SEA CON[®] has supplied these to Raytheon in Aluminum single mode configuration.

The XSJJ connectors are available as a CCP/BCR, CCP/CCR combinations with a penetrator in the design process. Overall diameter of the CCP is 0.937". Material for both the BCR/CCP is GRE (Glass Reinforced Epoxy), with the engaging nuts being made of Delrin[®] (DuPont trademark for Acetel Resin), with Stainless Steel or Copper Alloy being optional. The optical alignment sleeve is not field serviceable. Internal contact parts are made from Stainless Steel. Performance for this connector is <1.0dB loss.



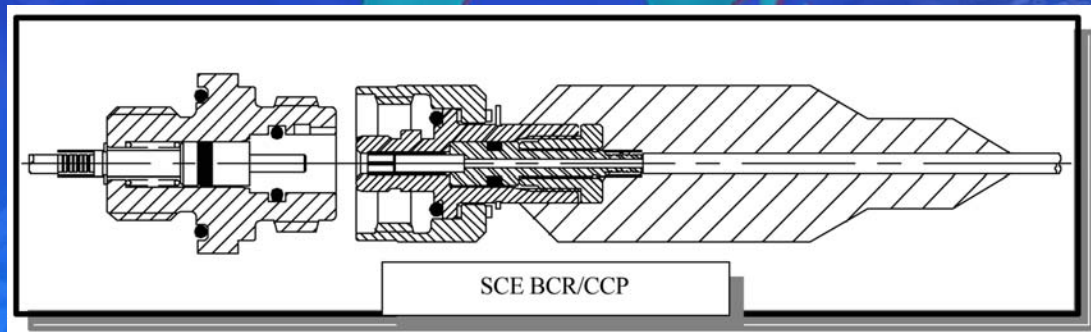
XSJJ

The XSJJ connectors are available as a CCP/BCR, CCP/CCR combinations with a penetrator in the design process. Overall diameter of the CCP is 0.937". Material for both the BCR/CCP is GRE (Glass Reinforced Epoxy), with the engaging nuts being made of Delrin® (DuPont trademark for Acetel Resin), with Stainless Steel or Copper Alloy being optional. The optical alignment sleeve is not field serviceable. Internal contact parts are made from Stainless Steel. Performance for this connector is <1.0dB loss.

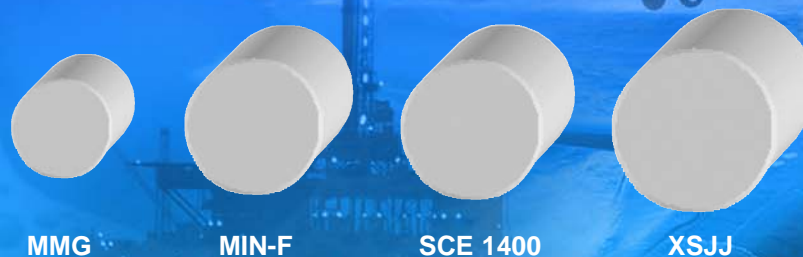


SCE 1400 SERIES

The SCE connector design is available as a CCP/BCR with a CCP/CCR in the design stages. Overall diameter for the CCP is 15/16" (0.875"), and the length is approximately 3 3/4" (3.75"). The standard material used is 316 Stainless Steel with Copper Alloy engaging nut. The CCP half features a dovetail o-ring face seal with the BCR receptacle having a piston seal for additional redundancy. The connectors use SEA CON® standard optical contacts with connector losses of <1.0dB. The CCP half lends itself to be molded to, off the shelf Polyurethane sheathed optical cable. Connectors can be supplied in single mode or multi-mode formats. As a material alternative, connectors can be supplied manufactured with nonmetallic PEEK shells.



SIZE COMPARISON



COMPARISON

	PRESSURE RATING (MAX)	DUAL O-RING SEAL	OPEN FACE PRESSURE	STRENGTH TERMINATION	AVAILABLE IN CCR/BCP	OPTIONAL MATERIALS	CONTACT DUAL-O-RING SEAL	WIDE RANGE OF CABLES	RIGHT ANGLE AVAILABLE	PENETRATOR AVAILABLE	FCR AVAILABLE	OVERMOLD AVAILABLE	COST PER PAIR/QUANTITY OF 100
MIN-F	20,000 PSI	●	◆	●	●	●	●	●	●	●	●	●	\$980PR/100
MMG	13,500 PSI	●	◆	●		●	□	●	●	●	●	●	\$1520/100
XSJJ		●					●					●	\$560/100
SCE		○			●						●	●	\$720PR/100

◆=BCR/FCR ONLY ○=OPTIONAL □=CCP ONLY

