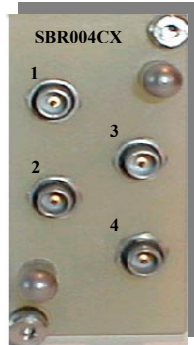


# H+W TEST PRODUCTS

58 INDUSTRIAL COURT SEEKONK, MA 02771 [www.hwtestproducts.com](http://www.hwtestproducts.com) Tel. 508-336-3200 Fax. 508-336-6855

## 4 Position 18 Ghz Coax Contacts

### SBR004CX (Receiver Side)



### SBF004CX (ITA-Fixture Side)



Images shown with all 4 Coax contacts installed, just for visual reference.

Contacts ordered separately and shipped loose.

**Description:** The SB(X)004CX interface block provides for up to 4 coaxial contacts for signals up to 18 gigahertz. Signal integrity is maintained by independent contact rear spring pressure of each contact pair ensuring consistent contact pressure. The rear of the receiver and fixture block contain SMA jacks. Cables should be terminated with SMA plugs that interface to these blocks. Dual alignment pins and bushings ensure precision block alignment. Dual shoulder screws in the receiver block SBR004CX allow the block to 'float' in the receiver.

These Blocks can be modified to be compatible with PYLON/1280pt Receivers (**consult factory**).

### Physical Specifications

Block material.....G-10 fine weave interwoven glass in an epoxy matrix  
 Block dimensions (inch).....2.345 H x 1.115 W (mm).....59.563 H x 28.321 W  
 Block material operating temperature (maximum for typical applications) .....266 °F / 130 °C  
 Receiver Alignment .....floating block w/ 2 alignment pins Fixture Alignment .....fixed block w/ 2 alignment bushings

### Electrical Specifications

#### Specifications for mated (receiver with fixture) contact pairs

Dielectric breakdown voltage rating.....335 vdc  
 Contact resistance.....4.0 milli-ohms  
 Insulation resistance (minimum).....5000 meg-ohms  
 RF Leakage (db minimum).....-(90-F(ghz))  
 Corona 70,000 ft (Vrms minimum).....250  
 Impedance.....50 Ohms  
 Frequency Range.....DC to 18 Ghz  
 VSWR.....1.05 + .005F(Ghz)  
 Durability.....5,000 cycles  
 Insertion Loss.....(0.06  $\alpha$ f(Ghz))

#### Specifications for the G-10 block material

Dielectric strength per ASTM D 149.....510 Volts/mil  
 Dielectric constant (100hz - 10,000mhz).....4.40 to 4.80  
 Surface resistivity (ohms/sq. in) @95% relative humidity...  
 ..... > 10<sup>12</sup>  
 Dissipation factor @ 1mhz per ASTM D150.....0.019  
 Permittivity @ 1mhz per ASTM D150.....4.6  
 Dielectric breakdown per ASTM D 149 per 1/16" matl.....  
 ..... > 40 kv  
 Coefficient of linear expansion(in. / °C).....length 1.0 x 10<sup>-5</sup>  
 .....crosswise 1.5 x 10<sup>-5</sup>

### Receiver Side Ordering Information

Blocks and contacts are sold separately

Block only (includes all hardware) .....**SBR004CX**  
 Contact only, 50 Ohms SMA (Jack/Plug)**CPR004CX**

### (ITA) Fixture Side Ordering Information

Blocks and contacts are sold separately

Block only (includes all hardware) .....**SBF004CX**  
 Contact only, 50 Ohms SMA (Jack/Jack).**CPF004CX**