Epoxy and Polish Connectors

Corning Cable Systems' epoxy and polish product line includes a full line of single-mode and multimode epoxy and polish connectors for factory installation. We offer a wide range of connector styles, hardware, and boot options. Pre-radiused and angled ferrules are also available.

Corning Cable Systems' new composite multimode ferrule offers excellent performance at a very low price. The redesigned ferrule allows easier fiber entry. It has the lowest material cost available. The standard multimode zirconia ceramic ferrule has a radiused end-face to allow physical contact (PC) polishing.

The hardware on the ST® compatible connector is available in either composite thermoplastic or metal. Both feature a closed keyway design allowing the connector to far exceed performance specifications for tensile strength. The SC connector features a shroud that is duplexable with a simple clip. The FC and SC connectors have non-optical disconnect features. All connectors are pre-assembled for easy installation.

For Super or Ultra PC, the single-mode zirconia ceramic ferrule has a radiused end-face to allow physical contact (PC) polishing. A consumables kit and procedure are available for hand-polishing to a Super PC finish, yielding a reflectance of -40 dB typical. Ultra PC (-55 dB) may be achieved by using our automatic polisher, the SP500. For angled PC, the FC and SC are available. The ferrule is pre-angled and must be polished with Corning Cable Systems' SP500 automatic polisher. A typical reflectance of -65 dB is achievable with this process.

APPLICATIONS

- Building wiring applications

- Ideal for connector assembly house applications in patch cord manufacturing

- Mass terminations when material cost is the main consideration

- Applications requiring low connector reflectance

- Bulk packaging for quicker assembly

- Angled PC available in FC and SC

- Pre-radiused zirconia ceramic ferrule with Super PC polishing available; Ultra PC available with automatic polisher

- Industry-leading multimode composite ferrule provides low cost with performance equal to ceramic

FEATURES AND BENEFITS

- Metallic and composite ST compatible connector hardware features robust closed keyway design

- Connectors are pre-assembled for reduced installation time

- New one-step crimp ring with jacket retention

- Boot size and color options

- Automatic polisher available

- SC, ST compatible, and FC meet EIA/TIA-568-B.3 standard; SC is duplexable

- FC meets JIS specification and has non-optical disconnect feature

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SPECIFICATIONS

Parameter	Single-mode	Multimode
Interconnection Compatibility	Compliant with TIA/EIA 604-2 (ST® Compatible), 604-3 (SC), and 604-4 (FC)	
Insertion Loss (typical)	0.2 dB	Composite ferrule: 0.2 dB Standard ceramic ferrule: 0.2 dB
Reflectance	< -30 dB for PC < -40 dB for Super PC < -55 dB for Ultra PC < -65 dB for Angled PC	N/A N/A N/A N/A
Durability	≤ 0.2 dB change, 1000 rematings, FOTP-21	
Tensile Strength	≤ 0.2 dB change, 20 lb, FOTP-6	
Temperature Cycling	-40 to +75°C, 21 cycles, < 0.3 dB change	
Material	Ferrule: Composite or Preradiused zirconia; Housing: Composite or Metal	

Note: SC connector is not available with metal housing.

ORDERING INFORMATION

Part Number	Description
Multimode Connectors	
95-100-02-BPxy*	**ST Compatible** Multimode Connector with **composite ferrule** and composite hardware; bulk packaged in quantities of 100
95-100-44-BPxy*	**ST Compatible** Multimode Connector with standard zirconia **ceramic ferrule** and **composite hardware**; bulk packaged in quantities of 100
95-101-44-BPxy*	**ST Compatible** Multimode Connector with standard zirconia **ceramic ferrule** and **metal hardware**; bulk packaged in quantities of 100
95-100-03-BPxy*	**SC** Multimode Connector with **composite ferrule** and composite hardware; bulk packaged in quantities of 100; duplexable
95-100-48-BPxy*	**SC** Multimode Connector with standard zirconia **ceramic ferrule** and **composite hardware**; bulk packaged in quantities of 100; duplexable
95-400-03-BP	**SC Duplex Clip**; bulk packaged in quantities of 100
Single-mode Connectors	
95-250-06-BPxy*	**ST Ceramic**, Composite Hardware; bulk packaged in quantities of 100
95-251-06-BPxy*	**ST Ceramic,** Metal Hardware; bulk packaged in quantities of 100
95-250-10-BPxy*	**FC Ceramic**, Metal Hardware; bulk packaged in quantities of 100
95-211-10-BPxy*	**FC APC** Single-mode Connector with pre-angled ceramic ferrule and metal hardware; bulk packaged in quantities of 100; must be polished with SP500 polisher
95-250-08-BPxy*	**SC Ceramic**; Metal Hardware; bulk packaged in quantities of 100
95-211-08-BPxy*	**SC APC** Single-mode Connector with pre-angled ceramic ferrule, **metal hardware** and green shroud; bulk packaged in quantities of 100; must be polished with SP500 polisher

*Boot size and color are offered as options:

x = Size	y = Color		
9 = 900 µm boot only	B = black	N = navy blue	G = green
3 = 3 mm boot only	R = red	W = white	Y = yellow

Accessories

Part Number	Description
TKT-025	Termination Kit for Corning Cable Systems multimode and single-mode heat-cured connectors; includes installation tools for ceramic or composite connectors and consumables for up to 200 ceramic connectors; **supplemental consumables must be added for composite termination (TKT-025-CA)**
TKT-025-CA	Supplemental Consumables to terminate all-**composite** connectors; must be added to TKT-025 for initial installation
TKT-025-C	Ceramic Consumables Kit for TKT-025; will terminate up to 200 connectors
TKT-025-C1	Composite Consumables Kit for TKT-025; will terminate up to 200 connectors
TKT-025-SPC	Super PC Polishing Consumables Kit for single-mode connectors
3201014-01	Jacket Retention Crimp Tool for ST compatible and SC connectors
SP500	Automatic Polisher; polishes up to 12 connectors simultaneously

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