

Specifications for the 3M™ SC Connectors

	Multimode			Single-mode				
Product Number	6300	6900	6306	8308	8300	8306 8307	8900	8306-SC/APC
Connector type	Hot Melt Ceramic	Crimplok™ Ceramic	Epoxy Ceramic	UHT Hot Melt Ceramic	Hot Melt Ceramic	Epoxy Ceramic	Crimplok Ceramic	Epoxy Ceramic
Fiber size (µm)	125	125	125	126	126	126 127	126	126
Insertion Loss (dB) typical field mount (one mated pair) @ 1300 nm	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3
Reflection (dB) typical field mount	-25	-27	-25	-55	-40	-45	-40	-65
Connection durability (dB) change after 500 matings	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Operating temperature connector only (cable dependent)	-40° to 85°C (-40° to 185°F)	-10° to 60°C (14° to 140°F)	-40° to 85°C (-40° to 185°F)	-40° to 100°C (-40° to 212°F)	-40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)	-10° to 60°C (14° to 140°F)	-40° to 85°C (-40° to 185°F)
Storage temperature	-40° to 85°C (-40° to 185°F)	-40° to 80°C (-40° to 176°F)	-40° to 85°C (-40° to 185°F)	-40° to 100°C (-40° to 212°F)	-40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)	-40° to 80°C (-40° to 176°F)	-40° to 85°C (-40° to 185°F)
Cable tension Straight pull	<0.5 dB increase at 11.24 lbs.	<0.5 dB increase at 11.24 lbs.	<0.5 dB increase at 11.24 lbs.	<0.2 dB increase at 15 lbs.	<0.5 dB increase at 11.24 lbs.	<0.5 dB increase at 11.24 lbs.	<0.5 dB increase at 11.24 lbs.	<0.2 dB increase at 15 lbs.
Side pull	<0.5 dB increase at 3 lbs.	<0.5 dB increase at 3 lbs.	<0.5 dB increase at 3 lbs.	<0.3 dB increase at 7.5 lbs.	<0.5 dB increase at 3 lbs.	<0.5 dB increase at 3 lbs.	<0.5 dB increase at 3 lbs.	<0.3 dB increase at 7.5 lbs.
Testing specifications	TIA*	TIA*	TIA*	Telcordia/TIA*	TIA*	Telcordia/TIA*	TIA*	Telcordia/TIA*
Material								
Connector ferrule	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic
Connector housing and body	Engineered resin	Engineered resin	Engineered resin	Engineered resin	Engineered resin	Engineered resin	Engineered resin	Engineered resin
Boot	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer
Flame retardancy	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0
Connector identification								
Body	Black	Black	Beige	Black	Black	Beige	Black	Beige
Outer shell	Beige	Beige	Beige	Blue	Blue	Blue	Blue	Green
Boot**	White	Black	Beige	Blue	White	White	Black	Green
Field Termination Kit								
120 V	6355	6955	8365	6355	6355	8365	6955	8366
230 V	6351	(no power needed)	8361	6351	6351	8361	(no power needed)	Conversion Kit
Ordering Information	6300	6900	6306	8308	8300	8306 8307	8900	8306-SC/APC
Connector type	Hot Melt Ceramic	Crimplok Ceramic	Epoxy Ceramic	UHT Hot Melt Ceramic	Hot Melt Ceramic	Epoxy Ceramic	Crimplok Ceramic	Epoxy Ceramic
Packaging	1/pkg., 60/cs.	1/pkg., 60/cs.	1/pkg., 60/cs.	1/pkg., 60/cs	1/pkg., 60/cs.	1/pkg., 60/cs.	1/pkg., 60/cs.	1/pkg., 60/cs.
Minimum order	60 each	60 each	60 each	60 each	60 each	60 each	60 each	60 each
UPC	054007-91725	054007-92815	054007-91724	051115-15186	051138-57747	054007-91722 054007-91723	051138-75386	051138-87051

*Notes: TIA = TIA/EIA 568B; Telcordia GR-326-CORE

**Other boot colors are available

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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[6900](#) [8306](#)