



F-Conn Commercial Series Data Specifications

ICM Connector Series	FS59, FS6, FS11
Cable Types	Series 59, 59Q, 6, 6Q, 11
Braid Coverage Range	60% through quad shield – 60% tri, quad shield
Jacket Types	PVC, PE and Plenum

Mechanical Requirements	Specifications	Limits	Test Results
Corrosion Resistant	BLCR GR-1503 3.2.1	Conforming materials	Exceeds
Cable Application	BLCR GR-1503 3.2.2	<20 lbs max insertion	Exceeds
Cable Interface	BLCR GR-1503 3.2.3	>40 lbs pull force	Exceeds
Equipment Interface	BLCR GR-1503 3.2.4	>10 matings without damage	Exceeds
Equipment Interface	BLCR GR-1503 3.2.4	>60 in-lbs without damage	Exceeds
Temperature Cycling with Humidity	BLCR GR-1503 4.1	+70° F to +140° F to -40° F must pass 3.2.3 after 3 days	Exceeds
Loosening Torque	BLCR GR-1503 4.2	>30 in-lbs after 3 days of 4.1	Exceeds
Moisture Migration	SCTE IPS-TP-013	No dye penetration	Exceeds
Salt Fog	BLCR ASTM B 117	Return loss >30 dB @ 1 GHz	Exceeds
Environmental Pollutants	BLCR GR-1503 4.5	Return loss >30 dB @ 1 GHz	Exceeds
Vibration	BLCR GR-1503 4.6	Loosening torque >32 in-lbs	Exceeds
Chemical Resistance Outdoor	BLCR GR-1503 4.7	7 days exposure*	Exceeds
UV Degradation	BLCR GR-1503 4.8	7 days exposure*	Exceeds
Ozone Degradation	BLCR GR-1503 4.10	70 hours exposure*	Exceeds

Electrical Requirements	Specifications	Limits	Test Results
Insulation Resistance	BLCR GR-1503 3.5.1	>5000 M @ 100 Vdc	Exceeds
Dielectric Strength	BLCR GR-1503 3.5.2	<1 KVac for 1 minute	Exceeds
Insertion Loss	BLCR GR-1503 3.5.3	<0.1 dB to 350 MHz	Exceeds
		<0.2 dB to 700 MHz	
		<0.3 dB to 1 GHz	
Return Loss	BLCR GR-1503 3.5.4	>30 dB to 1 GHz	Exceeds
Shielding Effectiveness	BLCR GR-1503 3.5.5	>95 dB to 300 MHz	Exceeds
		>70 dB to 1 GHz	