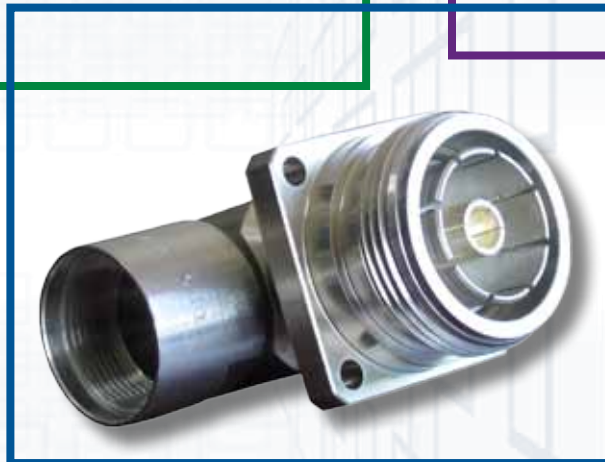


Winchester Electronics Presents...

## 7/16 Series Telecom Connectors



Winchester Electronics' KINGS® Brand 7/16 connector series is a high quality, 50 Ohm product designed to achieve excellent RF performance and withstand the vibration, shock, moisture, and temperatures of adverse outdoor environments. They are a rugged, solid brass bodied connector with an M29 x 1.5 mating thread. The typical use is in high power, single and multi-channel base stations, antennas, and broadcast communication systems operating at 100 watts per channel. These connectors have few components to handle and are easily assembled to cable.

This product line consists of cable connectors, receptacles, adapters within series, adapters to "N" series, and accessories.

## Electrical

NOMINAL IMPEDANCE:	50 Ohms
FREQUENCY RANGE:	DC to 6 GHz
VOLTAGE RATING:	2,700V RMS
DIELECTRIC W/STANDING VOLTAGE:	4,000V RMS (Test - 1 min.)
PEAK POWER:	40 KW
AVERAGE POWER (AT 800 MHz):	3 KW
VSWR (ON 1/2 IN. CORRUGATED CABLE):	DC - 2 GHz - 1.06 max. 2 - 3 GHz - 1.09 max. 3 - 4 GHz - 1.12 max.
INSULATION RESISTANCE:	10,000 Megohms min.
INSERTION LOSS:	0.05/Freq. GHz dB max

## Material

INSULATORS:	PTFE ASTM-D-4894
FEMALE CENTER CONTACTS:	Beryllium Copper, ASTM-B-196 (heat treated)
MALE CENTER CONTACTS:	Brass, ASTM-B-16
OUTER CONTACTS:	Brass, ASTM-B-16
BODIES:	Brass, ASTM-B-16
CRIMP SLEEVES:	Commercial Bronze, Alloy 220
GASKETS & SEALS:	Silicone Rubber, ZZ-R-765

## Mechanical

CENTER CONTACT ATTACHMENT:	Direct Solder
OUTER CONDUCTOR ATTACHMENT:	Collet Clamp/ Compression for Helical Crimp for Braided Cables Direct Solder for Tubular Per IEC 169-4
INTERFACE DIMENSION:	M29 x 1.5 Thread
MATING:	500 Cycles min.
CONNECTOR DURABILITY:	15-20 ft. lbs.
COUPLING NUT TORQUE:	200 lbs. min.
COUPLING NUT RETENTION:	150 lbs. min.
CABLE RETENTION (ON 1/2 IN. CORRUGATED CABLE):	150 lbs. min.

## Finishes\*

CENTER CONTACTS & OUTER CONDUCTOR PARTS:	Silver or Gold
COUPLING NUTS & CABLE CLAMP NUTS:	Nickel

\*White bronze plating on all body, coupling, and clamp nut parts is available. For white bronze plating add "MJ3" suffix to part numbers shown, e.g., 3155-2-5 MJ3.

## Environmental

TEMPERATURE RANGE:	-65° to +165°C	CORROSION (SALT SPRAY):	MIL-Std-202, Method 204, Test Cond. B
VIBRATION:	MIL-Std-202, Method 204, Test Cond. B	COMPRESSION SEALS (WHERE APPL.):	50 PSI
SHOCK:	MIL-Std-202, Method 213, Test Cond. 1	MOISTURE RESISTANCE:	MIL-Std-202, Method 106

KINGS® Part No.	DESCRIPTION	CABLE TYPE	CABLING METHOD	CABLE PROCEDURE
3155-2-5	Straight Plug	Andrew 1/2" Heliax FSJ4-50B FSJ4RN-50B	Collet Clamp w/direct solder to center contact	3-654-1
3156-2-5	Right-angle Plug			3-654-2
3152-2-5	Panel Jack (4-hole Mtg)			3-654-1
3152-4-5	Right-angle Panel Jack			3-654-2
3153-3-5	Straight Jack			3-654-1
3152-5-5	Bulkhead Jack (D Hole Mtg)			3-654-1
3155-3-5	Straight Plug	Times LMR 400	K-Grip Crimp w/direct solder to center contact	3-696
3155-4-5	Straight Plug	Times LMR 600		3-696
3153-1-5	Straight Jack	Times LMR 400		3-696
3153-2-5	Straight Jack	Times LMR 600		3-696
3155-5-101	Straight Plug	CommScope 3/8" CR50396PE	Direct Solder	3-692
3155-6-101	Straight Plug	CommScope 1/2" CR50540PE		3-692

*Connecting Innovation to Application®*