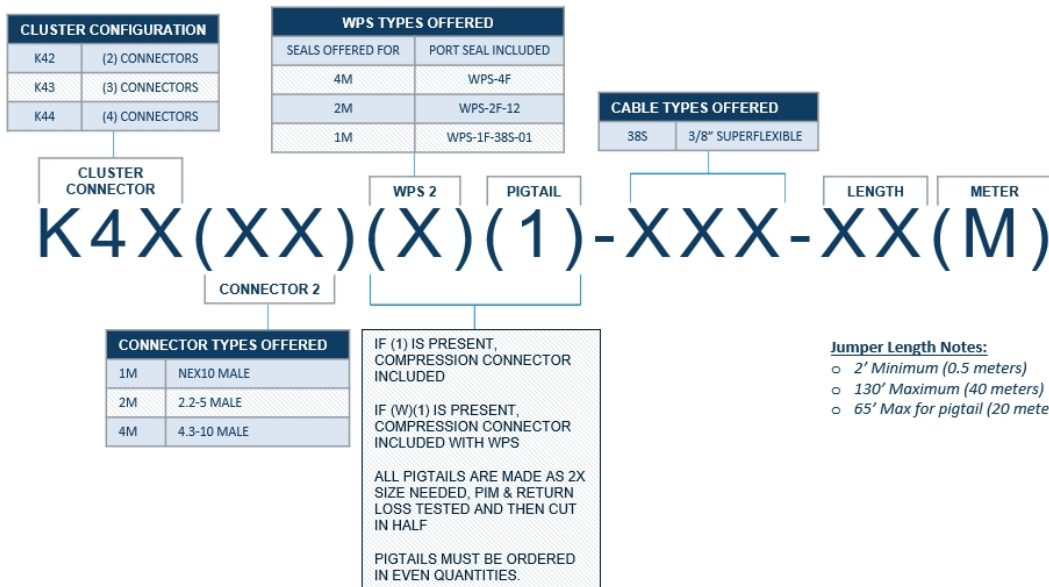




## Key features

- Field-replacable jumpers save up to 80% operational costs
- Keying feature eliminates the possibility of mismating
- Tool-less installation and removal in under ten seconds
- Fully weatherproofed without the need for additional weather-proofing



## Cluster Configuration

K42 (2) Connector Configuration	K43 (3) Connector Configuration	K44 (4) Connector Configuration
		

\* Unused ports are outfitted with port blanks to meet electrical, mechanical, and HALT requirements.

Electrical	Specification	Comments
Passive Intermodulation, 3rd Order <sup>1</sup>	-161 dBc minimum, dynamic HALT	As per IEC 62037-2, -3, before, during and after HALT testing
Operating frequency	DC - 6 GHz	
Cable	JMA38S-50	



# Factory Fit Cluster Certified Jumper

## 38S Interfaces: 4M, 2M, 1M

	Return Loss (dB) <sup>2</sup>			
Frequency (MHz)	L<20	20< L<80	80< L<130	130< L<170
617 - 960	-31	-26	-25	-24
1700 - 2200	-28	-26	-25	-23
2200 - 2700	-27	-24	-22	-20
3400 - 4200	-24	-20	-18	-16
5150 - 5925	-16	-16	-16	-16

Mechanical	Specification	Comments
Minimum bend radius, single bend, in. (mm)	0.98 (25)	
Minimum bend radius, multiple bends, in. (mm)	1.97 (50)	
Cluster attachment method	Dual latch, compression, tool-less	

Highly Accelerated Life Tests (HALT)	Specification	Comments
Mechanical stress, dynamic	Meets electrical performance in above table before, during, and after test.	As per IEC 62037-2, -3
Peak pull strength	> 400 lb min, combined > 800 lb min, cluster interface > 175 lb min, 3/8" superflexible jumpers (individually)	Cable limited, cable must fail before connection
Cable torque	> 33 lbf-in min, per individual jumper	Cable limited, cable must fail before connection
Thermal shock	Meets electrical performance in above table before and after test.	As per Anatel 75, before, during, and after HALT testing
Thermal stress	Meets electrical performance in above table before, during, and after test.	-55 °C to +85 °C, cycled every 2 hours for 30 days minimum
Moisture migration	Meets electrical performance in above table before, during, and after test. No dye present past seals at 10X magnification including the interface ports.	ANSI/SCTE 60 5 day submersion with thermal cycling.
Corrosion resistance	Corrosion must not penetrate plating into base metals; plating must stay adhered to base metal.	ASTM B117-94, 1000 hour duration
UV exposure	Materials must show no signs of embrittlement or mechanical deterioration after 12 months exposure, equal to 33.4 years outdoors.	Full UV spectrum (UVA, UVB, UVC), 12 months exposure with moisture present per ASTM G155
Vibration	10-50g, random axis, random frequency, non-sinusoidal, 10-10000 Hz	

Replacement Cables	Part #	Description
RF	KR-2KXXX(X)-XXX-XXXX	Jumper, Cluster

Customer Support		
<a href="#">Jumper performance portal</a>		
<a href="#">Request connector training</a>		
Customer service	1-315-431-7100	customerservice@jmawireless.com

<sup>1</sup> 100% of jumpers factory-tested with result available via web-based portal (link below)

<sup>2</sup> For mixed interface jumpers, Return Loss specification is governed by the interface with the lowest frequency rating.