

WaveWay™ *An advanced design for Next Generation applications*

Hughes innovative new connector system, The 'WaveWay™', is a step change in the fight against PIM. These ground breaking connections deliver a simple **PIM mitigating**, low torque, bespoke field termination that is IP68 rated and legacy compatible to the standard 7/16 interface.

The WaveWay™ is a PIM neutral low loss connector that has the ability to 'draw' reverberation based PIM from the system. The radical non-metal carcass reduces susceptibility to interference, dampens noise and hosts Hughes' ground breaking innovation, The WaveWay™; a superbly engineered wave formed screen which sets a new standard in termination stability and return path efficiency.



Sets a new standard in return path efficiency

Features and Benefits



- *Zero Corrosion*
- *Zero Harmonics*
- *Zero Magnetics*
- *Zero micro phonics*
- *Dampens vibration noise*
- *HydroPhobic*
- *Ultra low signal resistance*
- *No parallel paths signals*
- *Non –susceptible*
- *No metal oxide Junctions*
- *No capacitive couplings*
- *Low torque, Hand Terminability*

Technical Specifications

General	
Interface type	Hughes WaveWay
Interface according to	IEC 61169-4 ¹
Electrical	
Impedance	50 Ω
Frequency range	DC – 6GHz
Return loss	=36 dB @DC to 1GHz; =34 dB @1GHz to 2.7GHz , =30 dB @2.7GHz to 6GHz
VSWR	1.03 @DC to 1GHz; 1.04 dB @1GHz to 2.7GHz , 1.065 @2.7GHz to 6GHz
Insertion loss	0.05dB typical
Intermodulation 3 rd order	<-165dBc, -172dBc typical @2x20W
Materials	
Centre contact	CuBe, Ag plating
WaveWay insert	CuZn, White bronze plating
Dielectric	PTFE
Seals	Rubber
Body	Black 10% glass filled ABS

¹ Fully compatible when using legacy WaveWay inserts