PRODUCT DATASHEET

43M-HCA78-CP01

4.3-10 Male Compression Connector for 7/8" Coaxial Plenum Cable, Straight



RFS Technologies' high performance Compression Connectors are designed for CELLFLEX® cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment using compressing technologies. All RFS Technologies' connectors are fully tested for mechanical and electrical compliance to industry specifications.

The 4.3-10 connector is an innovative, space-saving RF connection meeting all requirements even under the most severe environmental conditions and not relying on coupling nut torque. Sealing against outer conductor and jacket by means of the o-ring and 360° compression fit.

Multifunctional, self-lubricating HighTech polymer assembly locks on cable corrugation, avoids electrochemical potential differences and compression-fits to the jacket.

FEATURES / BENEFITS

- One-piece design together with Compression tools to minimize installation time required, improve installation security
- Ultra high PIM performance i.e. reduced interference leading to high customer satisfaction
- Watertight sealing to IP68
- Tri metal alloy plating i.e. extreme resistance against corrosion even under hardest climatic and environmental circumstances
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical features

GENERAL SPECIFICATIONS

Transmission Line Type		Plenum Coaxial Cable HCA78
Cable Size		7/8
Cable Type		Air Dielectric, Plenum Low Loss
Model Series		HCA78-50 Series
Connector Interface		4.3-10
Connector Type		Compression Connector PREMIUM Straight
Sealing Method		360° Compression
Gender		Male

ELECTRICAL SPECIFICATIONS

Nominal Impedance, ohms	Ohm	50
Insertion loss	dB	≤0.05
3rd Order IM Product @ 2x20 Watts	dBc	-160
Maximum Frequency	GHz	6
VSWR, Return Loss	VSWR (dB)	DC<f≤3.0 GHz: 1.05 (32.3) 3.0<f≤6.0 GHz: 1.10 (26.4)

All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering

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MECHANICAL SPECIFICATIONS

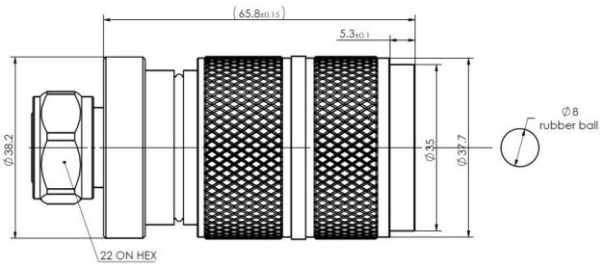
Plating Outer/Inner		Tri metal alloy / Silver
Length	mm (in)	65.8 (2.59)
Outer Diameter	mm (in)	37.7 (1.48)
Weight	kg (lb)	0.302 (0.666)
Inner Contact Attachment		Compression
Outer Contact Attachment		360° clamping

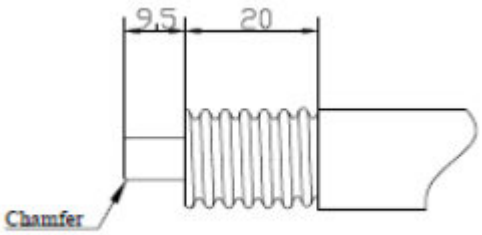
ACCESSORIES

Trimming Tool		AFBXD05-42(Trimming)

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
Operation Temperature	°C(°F)	-40 to 85 (-40 to 185)





External Document Links

Installation Instruction

Installation Video, Plenum HCA78

Notes

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