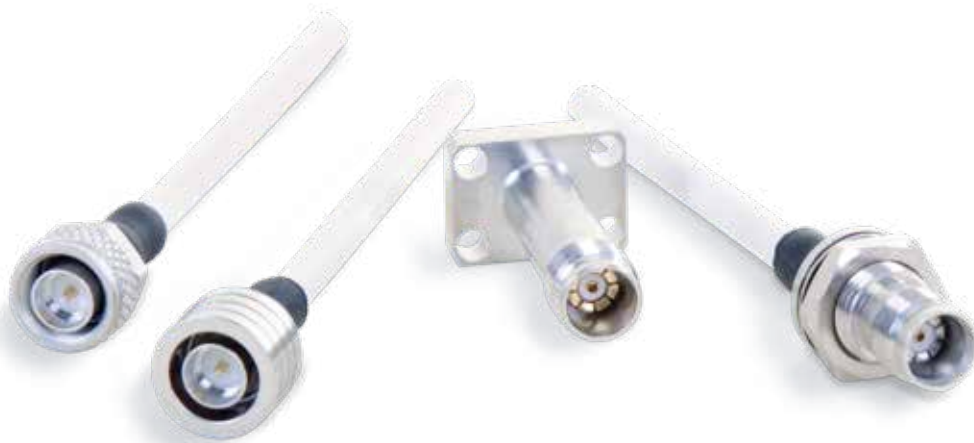


# EDD<sup>®</sup> CONNECTOR

Excellent PIM performance at minimal space

- » Space saving miniaturized RF-interconnection
- » Excellent passive intermodulation
- » Quick lock and screw coupling
- » Superior RF performance

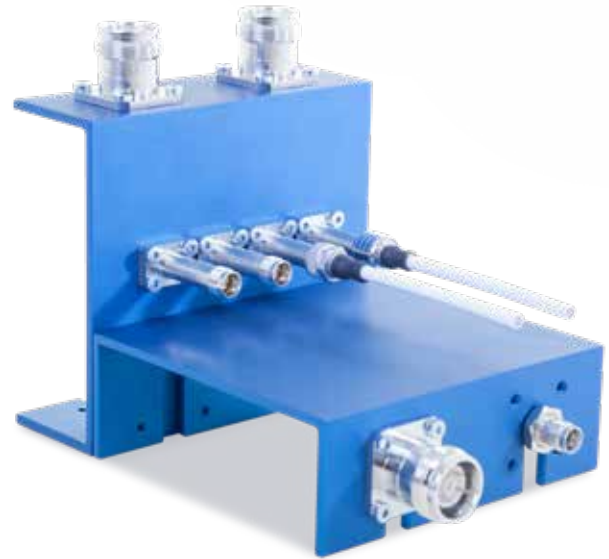


# EDD<sup>®</sup> CONNECTOR

## New miniaturized, PIM optimized Quick lock solution

The new EDD<sup>®</sup> interface offers excellent PIM performance for low space requirements in a rugged design and compact size.

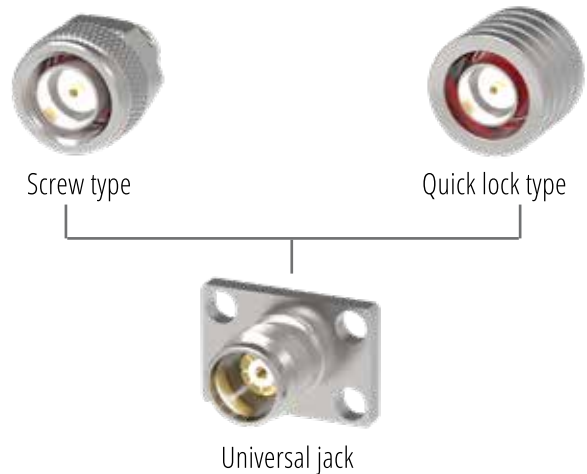
The innovative design meets requirements for both present and future demands of small cell, the upcoming 5G antenna, and 5G radio connections.



### Product Features

- » Easy, fast, and safe locking interconnection
- » Miniaturized 4.3-10 connector solution
  - only 12 mm outer diameter
- » One interface - but two coupling versions
  - Screw and Quick lock coupling
- » Space saving miniaturized interconnection
  - 55 % smaller than 4.3-10
- » Excellent RF performance up to 20 GHz
- » Superior passive intermodulation values
  - better than -166 dBc
- » Power rating typ. 220 W @ 2,2 GHz @ 23 °C
- » IP68 watertight solution
  - for indoor and outdoor applications
- » Cost optimized solution compared to 4.3-10 and 7/16 interconnection

### One jack for all plug types



# APPLICATIONS

- » Radios and filters in Small Cells
- » Radios and filters in Macro Cells
- » Distributed Antenna Systems (DAS)
- » In-building antennas
- » Massive MIMO antennas
- » Antenna interconnection solutions



## Comparative Technical Data

	EDD®	4.3-10	N	SMA
Operating frequency	20 GHz	6 GHz	18 GHz	18 GHz
Return loss	≥ 32 dB @ DC to 3 GHz ≥ 25 dB @ 3 GHz to 6 GHz ≥ 20 dB @ 6 GHz to 20 GHz	≥ 36 dB @ DC to 4 GHz ≥ 32 dB @ 4 GHz to 6 GHz	≥ 35 dB @ DC to 4 GHz ≥ 32 dB @ 4 GHz to 6 GHz ≥ 18 dB @ 6 GHz to 18 GHz	≥ 26 dB @ DC to 4 GHz ≥ 24 dB @ 4 GHz to 6 GHz ≥ 20 dB @ 6 GHz to 18 GHz
Power handling	- 220 W @ 2 GHz @ 23 °C 120 W @ 2 GHz @ 85 °C	- 500 W @ 2 GHz @ 90 °C	450 W @ 1 GHz @ 85 °C 300 W @ 2 GHz @ 85 °C	170 W @ 1 GHz @ 85 °C 120 W @ 2 GHz @ 85 °C
RF leakage	≥ 80 dB @ DC to 3 GHz ≥ 70 dB @ 3 GHz to 6 GHz (Quick lock version)	≥ 120 dB @ DC to 6 GHz (Screw version)	≥ 90 dB @ DC to 1 GHz	≥ 100 dB @ DC to 1 GHz
Passive intermodulation	≤ -166 dBc @ 2 x 43 dBm typical	≤ -166 dBc @ 2 x 43 dBm	Not specified	Not specified
Degree of protection (Interface in mated condition)	IP 68 @ 25 m, 1 hour	IP 68 @ 25 m, 1 hour	IP 67	IP 67
Mating cycles	≥ 100	≥ 100	≥ 500	≥ 500
Coupling mechanism	Screw, Quick lock	Screw, Hand-screw, Quick lock	Screw	Screw
Coupling torque (screw type)	≥ 1 Nm	≥ 5 Nm	≥ 3 Nm	≥ 1 Nm
Typ. flange size	12.7 mm	25.4 mm	25.4 mm	12.7 mm
Typ. weight of cable type (straight version)	6 g	36 g	26 g	6 g
Typ. outer diameter (max. diameter of mated pair)	11.2 mm (Screw version) 11.8 mm (Quick lock version)	24.3 mm (Screw version) 25.2 mm (Quick lock version)	21 mm	9 mm
Typ. shortest length of cable type (straight version)	13 mm	24 mm	26 mm	12 mm

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing parts. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

For specification and information in detail please see [www.imscs.com](http://www.imscs.com) >> eCatalog



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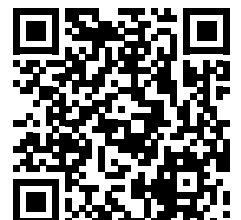
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