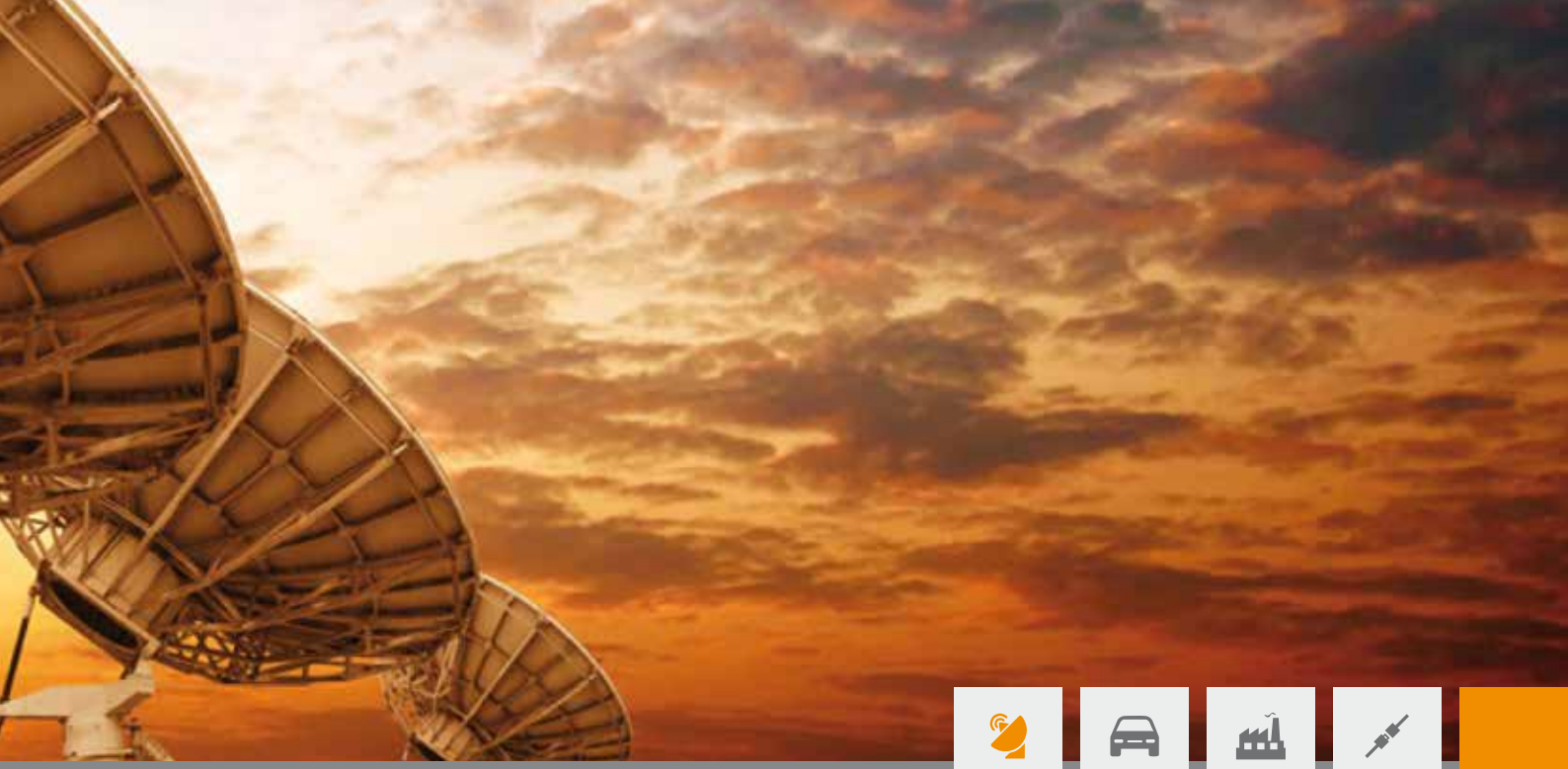


EDD® CONNECTOR

Excellent PIM performance at minimal space

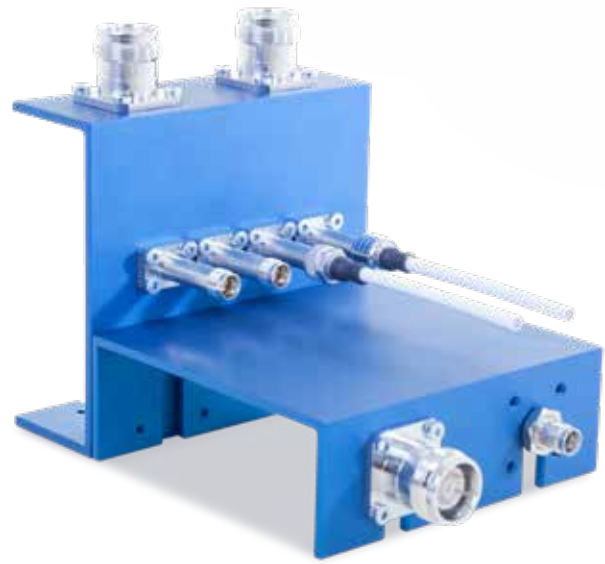
- Space saving miniaturized RF-interconnection
- Excellent passive intermodulation
- Quick lock and screw coupling
- Superior RF performance

IMS CONNECTOR SYSTEMS

EDD® CONNECTOR

New miniaturized, PIM optimized Quick lock solution

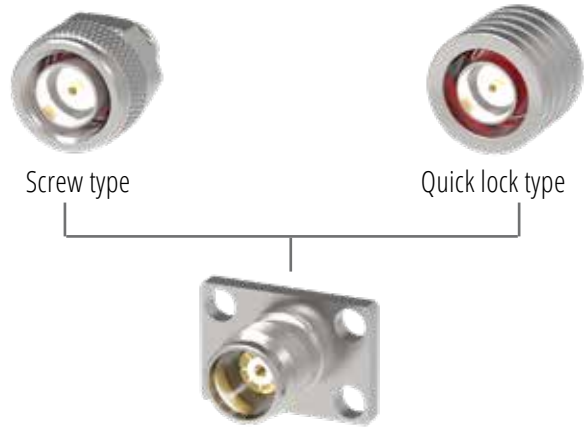
The new EDD® interface offers excellent PIM performance for low space requirements in a rugged design and compact size.
The innovative design meets requirements for both present and future demands of small cell, the upcoming 5G antenna, and 5G radio connections.



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

For specification and information in detail please see www.imscs.com >> eCatalog

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