OCTIS™ Outdoor I/O System

Right angle board connector, cable connector kit and cable assembly

ROBUST I/O FOR HIGH RELIABILITY AND PERFORMANCE

The versatile OCTIS™ I/O system, using multiple industry standard interfaces, features high speed signal and power, lightning protection, EMI shielding, and ease of installation for outdoor, compact and harsh environments.

- Transceiver moves outside the box, saving board space and providing better thermal management
- Lightning protection, EMI shielding features, and a rugged weather proof design makes it ideal for use in harsh environment applications
- Blind mate, float mount, color and physical coding features makes it easy to use and avoids incorrect mating
- Plug assembly options: Field installable or factory certified cable assembly
- Use of standard small form factor interfaces enable greater port to port density. This makes it ideal for outdoor applications like small cells, macro cells, smart radios and RRU/RRH.

NEW

TARGET MARKETS

FEATURES	BENEFITS
• Outdoor weather proof	• Suitable for most demanding environments. Lightning protection up to 15K Amps
• Rugged design	• 100 mating cycles, 200N tensile load; suitable for sophisticated equipment used in modern telecom and industrial markets
• Multi standard and varying interconnection interface	• Suitable for various applications with standard connector interfaces like SFP/SFP+, Signal, PoE (Power over Ethernet), Power, Hybrid of Signal & Power and RJ45.
• Adaptable interface holder and outer housing	• Cable mounting, mating and locking remain the same regardless of interface used
• Color coding on gland nuts	• Visual identification of cable assembly type
• System addresses present and future signal and power requirements with option for additional connector interfaces	• Upgrade option to higher data rate up to 10G & 25G per lane bandwidth and 35A+ per contact
• 26mm pitch and <100m length from panel	• High density and small form factor
• Double locking feature	• Tamper proof

OCTIS™ is a trademark of Radiall. OCTIS™ is a joint product development between FCI and Radiall.

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TECHNICAL INFORMATION

		SFP/SFP+	RJ45	Signal/PoE Metral® HDXS	Power – Pwr Profile®	Hybrid – Signal & Power
Connector Interface						
Dimensions		94 x 26 x 27mm (Length x Width x Height)				
Connector Interface Feature		Interoperable with all types of SFP/SFP+ ports and suitable for high data rate applications over long lengths	Commonly available interface	Meets requirements of PoE++, CAT 5e and ANSI for resistivity to over voltages up to 2500V. Current rating at 1.5A per pin and available in 8 position (4 pair) and 12 positions	High power application with current rating at 16A to 20A/power contact and available with 2,3 & 4 positions	Signal and power application
Key Electrical Performance		• Power Supply Voltage: 3.3V • Power Consumption: 0.25W (typ.)	Current Rating: 1A	Current rating 1.5A/pin	Current Rating: 16A to 20A/power contact	Current rating 1.5A/pin or Cat5e
Key Environmental Performance		IP67, 720 hours salt spray resistance; Operating Temperature Range : –55°C to +85°C				
Mating Force		–	22N max.	0.75N max./contact	29N max./contact	• 0.75N max./signal contact • 29N max./power contact
Unmating Force		–	9.8N	0.15N min./contact	4N min./contact	• 0.15N min. for signal • 4N min. for power
Target Markets & Applications		• Fiber to the Antenna (FTTA) • 4G+, LTE+, 5G • Smart Radio, RRU/RRH • Broadband • Cellular Wireless Communication System • Distributed Antenna System (DAS) • Smart Grid Network • Small Cells • Portable Outdoor Device				
Board Connector	**P/N**	SFP board (Edge) connector: 10122424–101LF Cage for connectors: • 10133694–101LF (PIP) • 10133694–102LF (Pressfit)	• RJESE–8480–31 (Tab up) • RJLSE–1NS–00001 (Tab down)	10133085–101LF	• 2 pos: 10133084–101LF • 3 pos: 10137559–102LF • 4 pos: 10137559–101LF	10131868–101LF
	Description	Suitable for all SFP/SFP+ connectors	RJ45 socket has mating compatibility with standard RJ45 cable assemblies	Metral® HDXS board connector with 4 pair or 8 signal contacts	Power board connector with 2,3 & 4 contacts	Hybrid connector with 8 signal and 2 power contacts
Plug Kit	**P/N (26mm pitch)**	10135746–101LF	• 10135742–101LF for tab up version • 10143848–102LF for tab down version • 10143848–101LF for tab down reverse lever	10135750–101LF	• 2 pos: 10135752–101LF • 3 Pos: 10139481–102LF • 4 Pos: 10139481–101LF	10135748–101LF
	Description	OCTIS™ plug kit without SFP connector	OCTIS™ plug kit without RJ45 connector	OCTIS™ plug kit with 4 pair or 8 position signal connector	OCTIS™ plug kit with 2, 3 or 4 position power contacts connector	OCTIS™ plug kit with hybrid of 8 position signal and 2 position power
Finished Cable Assembly	**P/N (Standard/custom lengths, Double/open ended type)**	10137109	10137111	10137115	10137117	10137118

Disclaimer

Please note that the above information is subject to change without notice.

HYBRID – SIGNAL & POWER CABLE CONNECTOR KIT
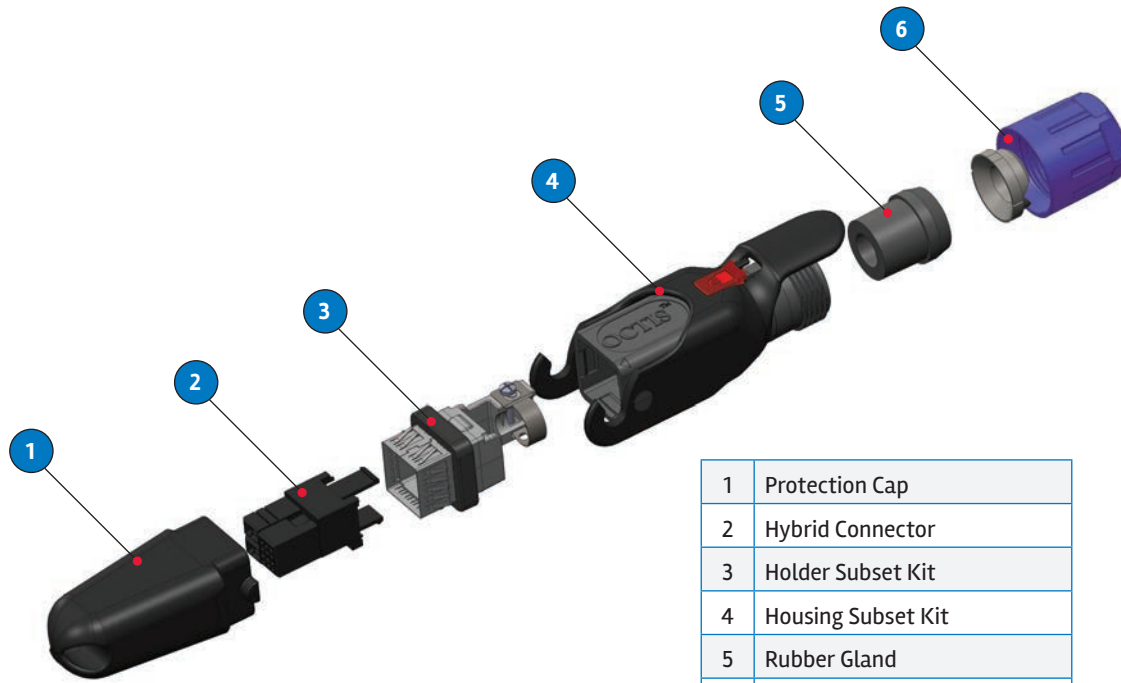
1	Protection Cap
2	Hybrid Connector
3	Holder Subset Kit
4	Housing Subset Kit
5	Rubber Gland
6	Gland Nut + Tightening Cone

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For more information,
please contact: Marketing@fci.com
or visit us at **www.amphenol–icc.com**

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