

IP-25 HYBRID SN® SERIES Connector Bulkhead Adapter



The IP-ONE (Optical 'N' Electrical) series is designed to simplify the deployment of fiber and power connectivity by combining them into a single connector. This innovative solution offers a streamlined cabling process that saves time and money while ensuring reliability and performance. One of the latest offerings from the IP-ONE series is Senko's IP-25 SN Hybrid connector. IP-25 Hybrid SN connector features four pairs of SN duplex connectors (i.e. 8 fibers) for fiber connectivity and 8x16-18 AWG copper conductors for powering. IP-25 SN Hybrid connector can also be used with Class 4 Fault Managed Power systems (FMPS). Class-4 FMPS allows safe and reliable method of high power delivery in long reach applications. For powered fiber applications, both power and fiber signals are transmitted via hybrid (fiber+copper) cable. Our Class 4 FMPS IP-25 Hybrid SN connector has an Orange colored safe lock to identify "FMPS powering application" and features a special key that will only allow mating with Class-4 FMPS rated IP25 Hybrid SN adapter.

The Class 1-2 IP-25 Hybrid SN connector has Senko's standard red colored safe lock ring and can be mated only with Class 1-2 IP-25 hybrid SN adapter. The IP-25 Hybrid SN® connector is housed in a robust plastic casing, ensuring its durability and resistance to harsh environmental conditions. It is rated to IP68 ingress protection from dust and water. As the demand for powered fiber delivery to networks and wireless equipment continues to rise the IP-25 SN® Hybrid series offers a cost-effective and simplified cabling solution. With its easy-to-install design, this connector series enables faster and more efficient deployment of fiber and power connectivity. By reducing installation time, the IP-25 SN® Hybrid series helps increase network reliability, productivity, and profitability.

FEATURES

- IP68 rated hardened connector body
- 4 x SN® duplex connectors (8-fiber)
- 8 x 16-18 AWG conductors for Class 1 and 2 powering
(red safe lock ring)
- 8 x 16-18 AWG conductors for Class 4 FMPS powering
(orange safe lock ring)
- Bayonet lock with patented Safe Lock Ring
- UV resistance for outdoor applications
- 100lbs superior pull force
- Easy and quick termination
- 13-19 mm OD cable compatible

APPLICATIONS

- FTTA
- Macro cell
- Hybrid breakout
- Indoor / outdoor deployment
- Class 1 and 2 or Class 4 FMPS power delivery
- High power applications

KEY BENEFITS

- ✓ High power hybrid (fiber + power)
- ✓ IP68 robust housing
- ✓ 100 lbs pull force

Mechanical Data

	Value
Proof	100 lbf or 450N for 60 seconds
Durability	50 matings
Fiber Count	8 fibers
Cable Suitability	13.0 - 19.0 mm round

Optical Data

	Singlemode		Multimode
	UPC	APC	MM
	Standard	Standard	Standard
Typical Insertion Loss (dB)*	0.08	0.12	0.10
Max. Insertion Loss (dB)*	0.20	0.25	0.20
Typical Return Loss (dB)*	≥55	≥65	≥25

* Based on master grade jumper to low loss random mating test

Environmental Data

	Value
IP Rating*	IP68
Operating Temperature (C)	-40°C to +75°C
UV Resistance	Yes
RoHS Compliance	2015/863 RoHS
REACH Compliance	Yes

* The IP rating was validated using a SENKO sourced cable and termination procedure. It is recommended to retest IP rating for any other cable types.

Electrical Data

	Contact Power Rating
Maximum Voltage*	600V AC/DC
Conductor Size	16-18AWG x 8
Maximum Current For 8 x 16AWG Conductors	11.2A per pair with 16AWG (total = 11.2A x 4 pairs = 44.8A)

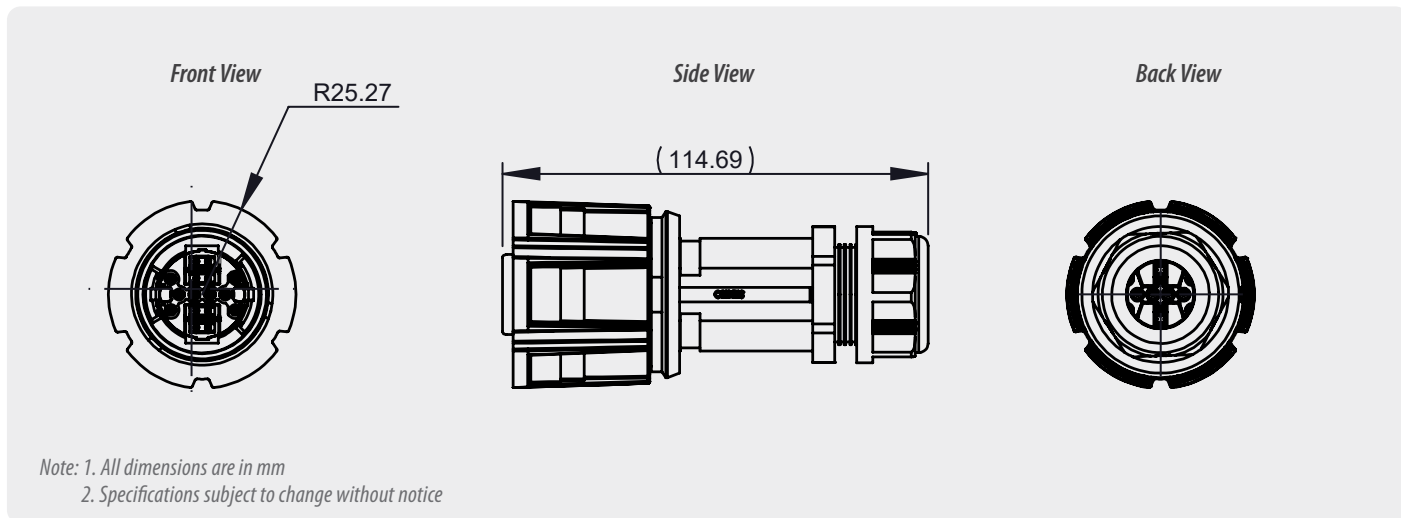
* Current rating at 25C ambient temperature

IP-25 HYBRID SN[®] SERIES

Connector

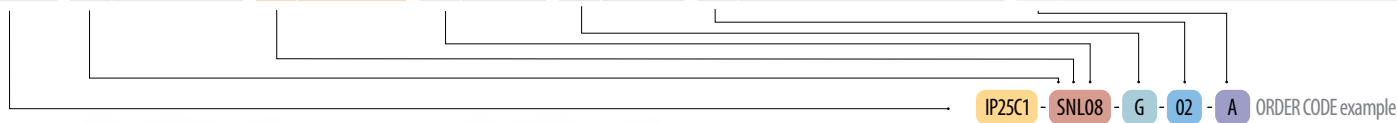
HARSH ENVIRONMENT SERIES DATA SHEET

Connector Drawing



ORDERING

CODE	CONNECTOR TYPE	FIBER TYPE	FIBER COUNT	CABLE SIZE	AWG COPPER CABLE GAUGE SIZE	CLASS
IP25C1	SN SN Connector	L SM UPC	08 8 Fibers*	G 13-18 mm	4 16-20AWG x 8 conductors (8 x 16-20 AWG)	A Class 1-2 (Red safe lock ring)
		G SM APC Green				D Class 4 FMPS (Keyed and Orange safe lock ring)
		A MM Aqua				



IP-25 Hybrid SN 8F 8P Class 1-2 Connector

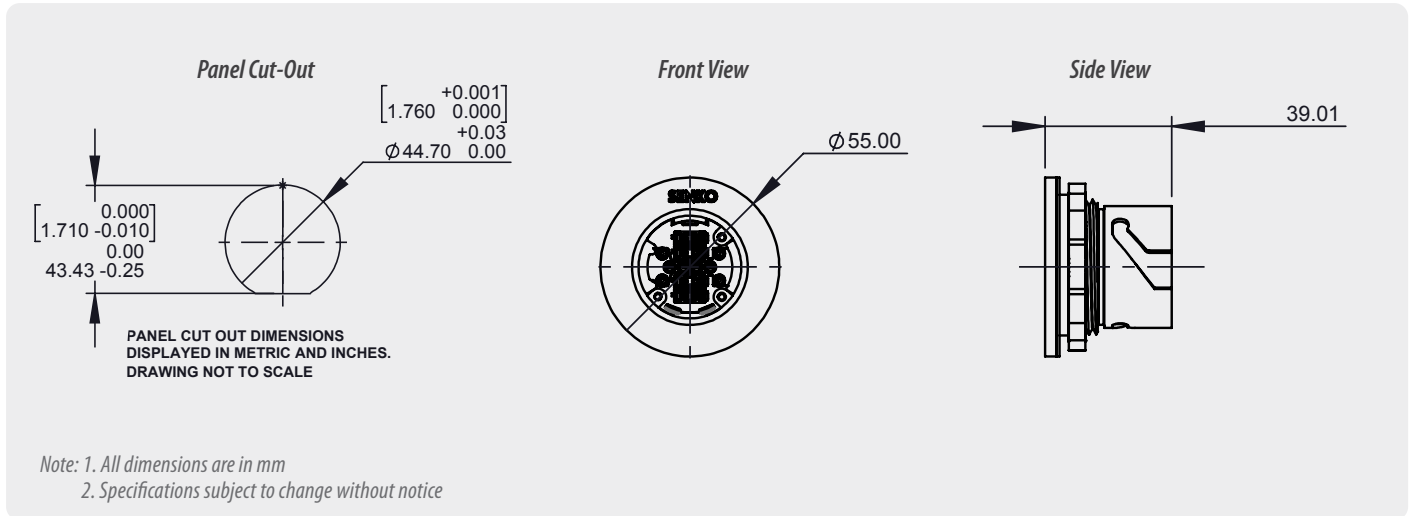


IP 25 Hybrid SN 8F 8P Class 4 Keyed Connector with Orange Safe Lock Ring

CODE	PRODUCT TYPE	GENERATION
IP25	DC1 Connector Dust Cap	01 Gen1



Bulkhead Adapter Drawing



ORDERING

CODE	ADAPTER TYPE	CONNECTOR TYPE	FIBER COUNT	LOCK RING AND GASKET	AWG COPPER CABLE GAUGE SIZE	CLASS
IP25	AB1 Bulkhead Adapter	SN SN Adapter	08 8 Fibers*	00 With Lock Ring and Gasket	4 16-20AWG x 8 conductors (8 x 16-20 AWG)	1 Non-Keyed (Class 1-2) 2 Keyed (Class 4 FMPS)

IP25 - AB1SN - 08 - 004 - 1 ORDER CODE example

Note: IP-25 connector is also available as copper only, no-fiber (non-hybrid) connector. Please consult your Senko representative for more information.



IP-25 Hybrid SN Bulkhead Adapter

CODE	PRODUCT TYPE	GENERATION
IP25	DA1 Mating Adapter Dust Cap	01 Gen1

IP25DA1 - 01 ORDER CODE example

Accessories - Production/Cleaning**ONE-CLICK DUPLEX SN**

PN: SCK-DC-SN

**IP-25 Hybrid Copper Conductor Crimp Tool**

TE Power Contact Crimp Tool PN: 58707

Die Set PN: 58707-2



SENKO[®]

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