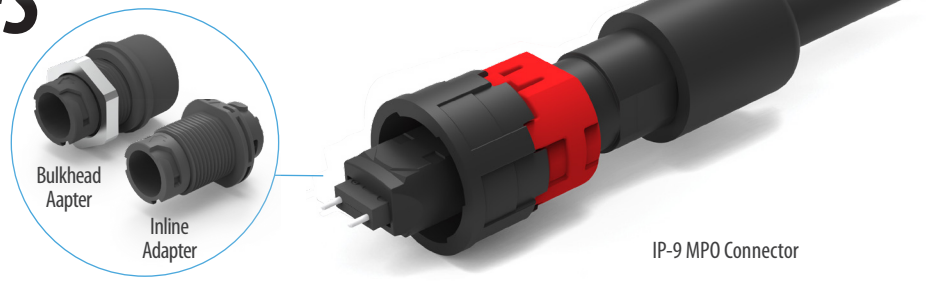
DATA SHEET

Capture the QR code to receive more information about the IP connectors and adapters

SENKO® Advanced Components

IP-9 MPO SERIES

Connector Bulkhead and Inline Adapter



The compact SENKO IP-9 connector series boasts a sturdy design within a small 20 mm OD housing. Using a patented "Safe Lock Ring" technology and bayonet mating mechanism, this connector offers a secure and visually-assured connection. Its IP68 rated housing makes it ideal for harsh environmental applications, including FTTA and FTTH deployments. When integrated into pre-terminated solutions, the IP-9 connector guarantees maximum performance and repeatability across the network.

Combining IP-9 connectors with bulkhead adapters allows for quick "plug & play" deployment of pre-terminated closures and drop cables in the field.

The IP-9 MPO connector houses a 12 or 24 fiber MT ferrule, which makes the multi-fiber connection quick and reliable, yet easy to handle as traditional MPO connectors.

FEATURES

- IP68 rated hardened connector
- Small Footprint for space saving
- Lightweight, yet rugged plastic body
- Bayonet lock with patented Safe Lock Ring
- UV resistance for outdoor applications
- 100lbs superior pull force
- Easy and quick termination
- 12/24 fiber options available
- Compatible with 3.0-5. 5mm OD cable

APPLICATIONS

- FTTx, FTTH, FTTA
- Broadcast
- Military
- Industrial
- Transport
- Renewable energy

KEY BENEFITS

- **Small footprint multi-fiber connector**
- **IP68 robust housing**
- **100lbs pull force**

Mechanical Data

	Value
Flex	0°/+90°/-90° for 8 cycles
Proof	100 lbf or 450 N for 120 seconds
TWAL	0°/90° for 30 minutes
Durability	50 matings
Impact	5-foot drop
Fiber Count	Multi-fiber *(12/24 fibers)*
Cable Suitability	3.0 - 5.5 mm round

Optical Data

	Singlemode		Multimode	
	APC		MM	
	Low Loss	Standard	Low Loss	Standard
Typical Insertion Loss (dB)* 12-fiber	0.10	0.20	0.08	0.15
Max. Insertion Loss (dB)* 12-fiber	0.25	0.70	0.25	0.50
Typical Return Loss (dB)* 24-fiber	0.15	0.25	0.15	0.20
Max. Insertion Loss (dB)* 24-fiber	0.35	1.00	0.35	0.50
Typical Return Loss (dB)*	≥60		≥25	

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

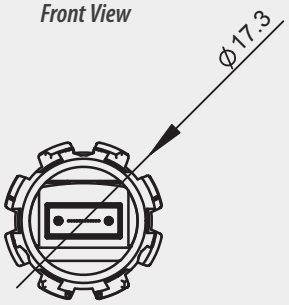
Environmental Data

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

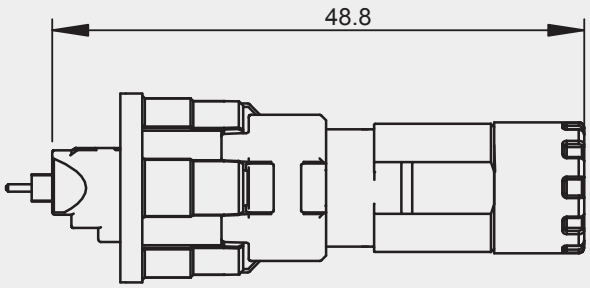
** The IP rating was validated using a SENKO sourced cable and termination procedure. It is recommended to retest IP rating for any other cable types.*

Connector Drawing

Front View



Side View



Note: 1. All dimensions are in mm
2. Specifications subject to change without notice
3. Heat shrink tube and tether not included

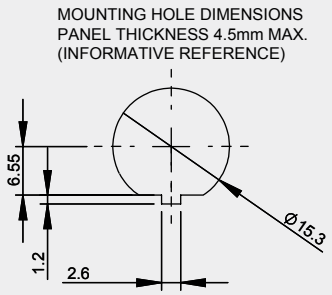
ORDERING

CODE	CONNECTOR TYPE		PERFORMANCE		FIBER COUNT		CABLE SIZE		IP DUST CAP	
IP09C4	MF	MPO Female	1	SM Standard	12	12 Fiber	3.0	3.0-3.2 mm	D	With Dust Cap
	MM	MPO Male	2	MM Standard	24	24 Fiber	4.5	4.3-4.6 mm		
			3	SM Low Loss			4.8	4.7-4.9 mm		
			4	MM Low Loss			5.5	5.0-5.5 mm		

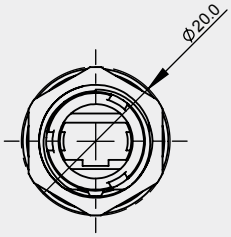
IP09C4 - MF112 - 3.0 - D ORDER CODE example

Bulkhead Adapter Drawing

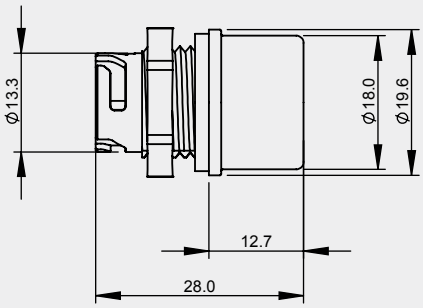
Panel Cut-Out



Front View



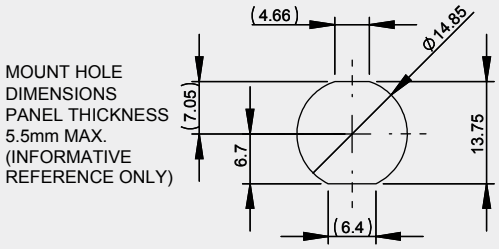
Side View



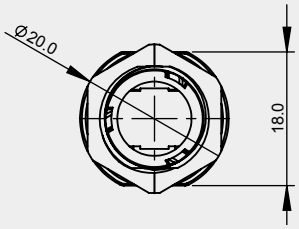
Note: 1. All dimensions are in mm
2. Specifications subject to change without notice
3. Tether not included

Inline Adapter Drawing

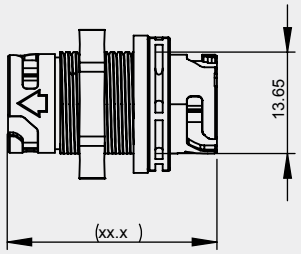
Panel Cut-Out



Front View



Side View



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ORDERING

IP-9 MPO Bulkhead Adapter

CODE	ADAPTER TYPE	TYPE	PORT	LOCK RING	IP DUST CAP
IP09	AB1 Bulkhead Adapter	MP MPO Adapter	1 1 Port	00 With Lock Ring and Gasket	D With Dust Cap

IP-9 MPO Inline Adapter

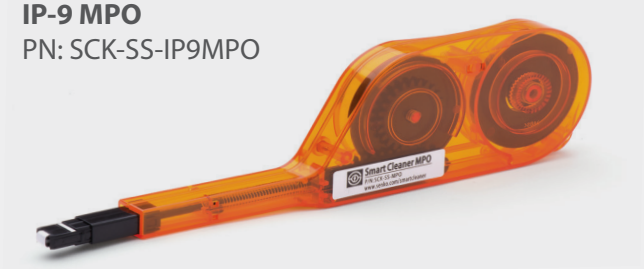
CODE	ADAPTER TYPE	TYPE	PORT	LOCK RING	IP DUST CAP
IP09	AL1 Inline Adapter	MP MPO Adapter	1 1 Port	00 With Lock Ring and Gasket	D With Dust Cap
				NN Without Lock Ring and Gasket	DD With Two Dust Caps

IP09AL1 - MP1NN - D ORDER CODE example

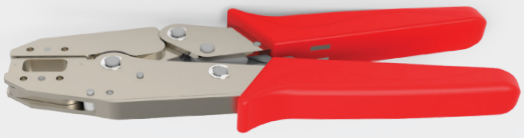
THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE PATENTS. FOR FURTHER INFORMATION, PLEASE VISIT **SENKO.COM/PATENTS**

Accessories - Production/Cleaning

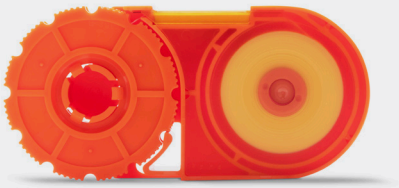
Smart Cleaner™
IP-9 MPO
PN: SCK-SS-IP9MPO



IP-9 Crimping Fixture
PN: CRT-IP9-01



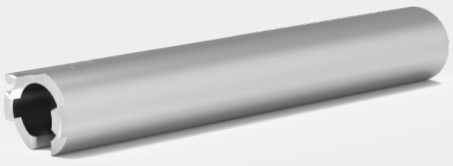
Smart Cleaner™
Cassette
PN: SCK-CC-100



IP-9 Crimp Tool
PN: AST-IP9-02

Accessories - Installation

IP-9 Installation Tool
PN: IP09-INS-01



IP-9 Port Blocker
PN: IP09PB1-01

SENKO®
Advanced Components

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senko.com/contact

DS-IP-000002-RevA-EN