

Data Sheet

Rev. A01

Fiber Optic Connector
V-Pin Connector

V-Pin Connector for POF 1/2.2mm

1 General _____

This Fiber Optic V-Pin Connector is optimized in particular for applications using standard 1 mm polymer optical fiber acc. IEC 60793-2-40 demanding a fast and easy cable assambly with high reliability, very good optical and mechanical characteristics. The rubber seal provides added link protection from ingress of dirt, dust and fluids. The connector is compatible with HFBR Versatile Link products.



94SS1050P0C02HF11-10

2 Application _____

Due to the good optical features and the easy cable assembly, the V-Pin connector is useable in several applications:

- · optical networking
- · industrial electronics
- power electronics

Pic. 1 V-Pin Connector for POF 1/2.2mm

3 Ordering information _____

Type Order number

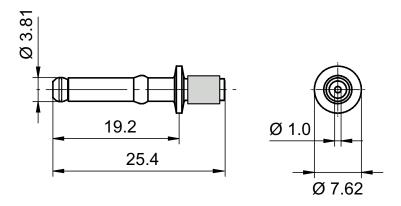
V-Pin POF Connector with rubber seal

grey 94SS1050P0C02HF01-10 blue 94SS1050P0C02HF11-10

Crimp Sleeve for V-Pin

POF Connector simplex 902SS001H4525

4 Drawing _____



Pic. 2 Drawing V-Pin Connector



V-Pin Connector for POF 1/2.2mm

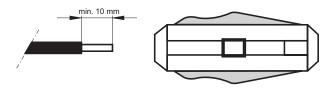
5. Cable assembly _____

Required tools for FO cable assembly of HFBR POF connector with 1/2.2mm POF cable:

Туре	Order number
Crimping tool hexagonal Fiber stripper Fiber stripper Polishing disc Polishing film, grain size 1000 Polishing film, grain size 4000	910CZ00100008 910AB00100001 910AZ00100PA1 910PSH4501001 910PB00100001 910PB00140250

5.1 Fiber optic cable

 Remove app. 5mm of outer jacket 2.2 mm by using the fiber stripper (Pic. 3)



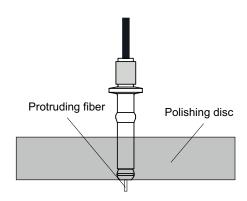
Pic. 3 Fiber stripper

5.2 Crimping of 2.2mm jacket:

- Align the connector anchor (rear end of connector) with the hexagonal cavity, wrench size 4.95 mm of the crimping tool (910CZ00100008, Pic. 4) and squeeze the crimping tool handles until they release
- Alternative to jacket crimping, pasting of jacket is also possible simultaneously with fiber pasting.

5.3 Fiber end face processing:

- After crimping, insert connector into polishing disc (Pic. 5) and grind the protruding fiber by using the polish film, grain size 1000 placed on a hard and plain support plate (e.g. glass plate). Press the polishing disc on the polish film an grind the fiber until the connector is flush with the bottom of the disc. Rotate in a figure of 8 format which will erode the core material of the cable.
- Wipe the connector with a clean tissue. Best insertion loss results are achieved by wet grinding
- If the connector is not to be used immediately, cover the end with the dust cap.



Pic. 5 Polishing disc



Pic. 4 Crimping tool hexagonal for jacket crimping



V-Pin Connector for POF 1/2.2mm

6 Technical data_____

Parameter	Condition		Min.	Тур.	Max.	Unit
Material	Ferrule Crimp Sleeve			Plastic Metal		
Thermal Conditions	Storage Temperature		-25		+85	°C
	Operating Temperature	Rubber Seal	-25		+85	
		Plug Retention	-40		+85	
	Installation Temperature		0		+70	
Retention Force	Plug to Transceiver	+25°C		8		- N
		-40°C to +85°C	3			
Insertion Force	Plug to Transceiver	+25°C		8		
Durability	Mating Cycles		500			Cycles

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