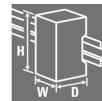


IE-PCB-SPE-P-90V2.1-THR-YG/YG RL**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**SPElink®****Single Pair Ethernet PCB sockets**

Single pair Ethernet is a technology that only requires one pair of wires to transmit data and power.

The resulting benefits will make SPE the preferred network at the field level and beyond.

Advantages of Single Pair Ethernet:

- Consistent: Single Pair Ethernet enables uniform Ethernet-based communication from the sensor to the cloud
- Future-proof: key technology for Industry 4.0 and IIoT
- Flexible: ranges of up to 1000 m and transmission properties of up to 1 Gbps enable use across applications
- Innovative: lighter, less space required, and reduced installation effort

General ordering data

Version	PCB plug-in connector, male header, SPE (Single Pair Ethernet), Clip-on flange, THT/THR solder connection, 1.80 mm, Number of poles: 2, 90°, Solder pin length (l): 2.1 mm, Ni/Au, black, Tape
Order No.	2795120000
Type	IE-PCB-SPE-P-90V2.1-THR-YG/YG RL
GTIN (EAN)	4064675119227
Qty.	100 pc(s).
Packaging	Tape

Creation date April 22, 2025 10:46:45 PM CEST

Catalogue status 22.04.2025 / We reserve the right to make technical changes.

IE-PCB-SPE-P-90V2.1-THR-YG/YG RL

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Dimensions and weights

Depth	19.9 mm	Depth (inches)	0.783 inch
Height	10.9 mm	Height (inches)	0.429 inch
Width	7.52 mm	Width (inches)	0.296 inch
Net weight	5.93 g		

Temperatures

Operating temperature	-40 °C...85 °C
-----------------------	----------------

System Parameters

Product family	Industrial Ethernet	Type of connection	Solder connection, Male contact
Pitch in mm (P)	1.8 mm	Pitch in inches (P)	0.071 "
Number of poles	2	Number of rows	1
Pin series quantity	1	Protection degree	IP20
Plugging cycles	750	Plugging force/pole, max.	3.5 N
Pulling force/pole, max.	6.7 N		

Material data

Insulating material	LCP	Colour	black
Colour chart (similar)	RAL 9011	Insulation strength	≥ 500 MΩ
Moisture Level (MSL)	1	UL 94 flammability rating	V-0
Contact base material	CuMg	Contact material	Cu-alloy
Contact surface	Ni/Au	Layer structure of solder connection	2...4 µm Ni / ≥ 0.25 µm Au
Operating temperature, min.	-40 °C	Operating temperature, max.	85 °C

Rated data acc. to UL 1059

Institute (cURus)		Certificate No. (cURus)	E316369
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Material data

Insulating material	LCP	UL 94 flammability rating	V-0
---------------------	-----	---------------------------	-----

General data

Colour	black	Colour chart (similar)	RAL 9011
Protection degree	IP20		

Classifications

ETIM 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	EC002637	ETIM 9.0	EC002637
ETIM 10.0	EC002637	ECLASS 9.1	27-44-04-02
ECLASS 10.0	27-44-04-02	ECLASS 11.0	27-46-02-01
ECLASS 12.0	27-46-02-01	ECLASS 13.0	27-46-02-01
ECLASS 14.0	27-46-02-01	ECLASS 15.0	27-46-02-01

Creation date April 22, 2025 10:46:45 PM CEST

IE-PCB-SPE-P-90V2.1-THR-YG/YG RL**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Technical data****Environmental Product Compliance**

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

Approvals

Approvals



Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cULus)	E316369

Downloads

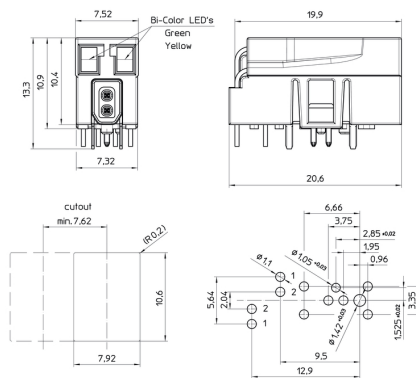
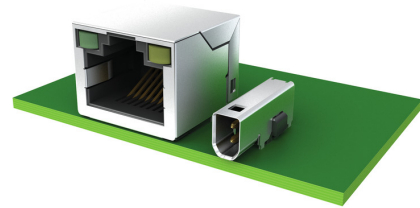
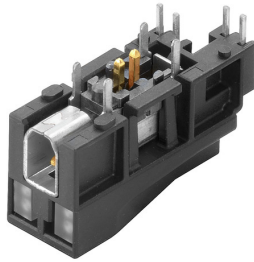
Engineering Data	CAD data – STEP
Product Change Notification	20221209 Änderung von SPE Typbezeichnung 20221209 Change of SPE type description
Technical Documentation	2795120000_E-PCB-SP0-P-90V-THR-YG/YG 2795120000_IE-PCB-SPE-P-90V2.1-THR-YG/YG_RL_241127.pdf
Catalogues	Catalogues in PDF-format

IE-PCB-SPE-P-90V2.1-THR-YG/YG RL

Weidmüller Interface GmbH & Co. KG
 Klängenstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Drawings



Pin assignment



Pair	Contacts	Data
1	1	RX/TX+
	2	RX/TX-

	effective length
Contact 1	11.3
Contact 2	15

LED Polarity

Green
 2 - 1
 Yellow

LED- Specifications				
Bi-Color LED	Forward Voltage (Max)	Forward Voltage (Typ)	Wavelength	
Green/Yellow	Green 2.6 V	2.2 V	570 nm	
Yellow	2.6 V	2.1 V	590 nm	

* With a forward current of 20 mA (Typ)

IE-PCB-SPE-P-90V2.1-THR-YG/YG RL

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Drawings