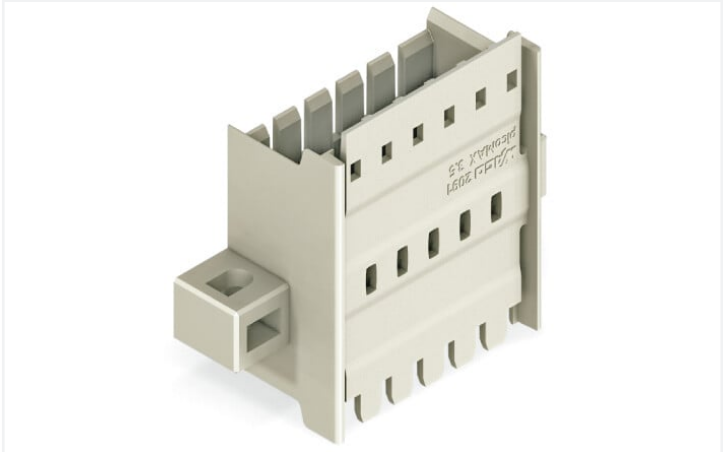
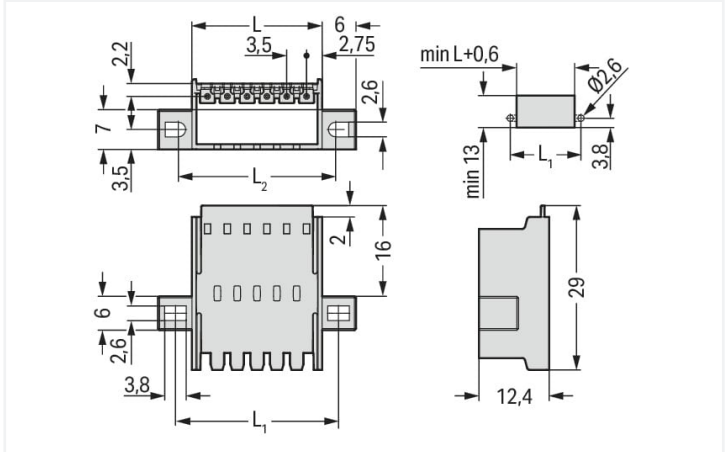


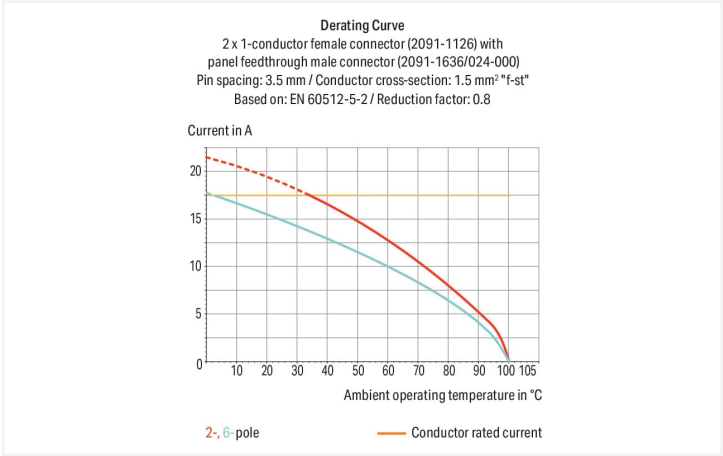


Color: ■ light gray

Similar to illustration



Dimensions in mm
L = (pole no. x pin spacing) + 2.0 mm
L1 = (pole no. x pin spacing) + 7.8 mm
L2 = (pole no. x pin spacing) + 6.8 mm



- Male connectors for screw mounting in device or enclosure panels
- External plug-in connection via locking latches to female connectors with conductor terminations
- Internal plug-in connection to female headers with solder pins or female connectors with conductor terminations
- Also available with pre-assembled female connectors on both sides
- Fixing flanges also suitable for panel mounting

Notes				
Safety information		The picoMAX® Pluggable Connection System includes connectors without breaking capacity in accordance with DIN EN 61984. When used as intended, these connectors must not be connected/disconnected when live or under load. The circuit design should ensure header pins, which can be touched, are not live when unmated.		

Electrical data									
Ratings per		IEC/EN 60664-1			Approvals per			UL 1059	
Overvoltage category		III	III	II	Use group	B	C	D	
Pollution degree		3	2	2	Rated voltage	300 V	-	300 V	
Nominal voltage		160 V	160 V	320 V	Rated current	10 A	-	10 A	
Rated surge voltage		2.5 kV	2.5 kV	2.5 kV					
Rated current		10 A	10 A	10 A					



Connection data		
Total number of potentials	8	Connection 1
Number of connection types	1	
Number of levels	1	
		Pole number 8

Physical data		
Pin spacing	3.5 mm / 0.138 inches	
Width	42 mm / 1.654 inches	
Height	12.4 mm / 0.488 inches	
Depth	29 mm / 1.142 inches	

Mechanical data		
Variable coding	Yes	
Mounting type	Mounting flange Feed-through mounting Panel mounting	
Anti-rotation protection	Yes	

Plug-in connection		
Contact type (pluggable connector)	Male connector/plug	
Connector (connection type)	for pluggable connector	
Mismating protection	No	
Plugging without loss of pin spacing	Yes	
Locking of plug-in connection	Locking latch	

Material data		
Note (material data)	Information on material specifications can be found here	
Color	light gray	
Material group	I	
Insulation material	Polyphthalamide (PPA GF)	
Flammability class per UL94	V0	
Clamping spring material	Chrome-nickel spring steel (CrNi)	
Contact material	Electrolytic copper (E _{Cu})	
Contact plating	Tin	
Fire load	0.139 MJ	
Weight	3.9 g	

Environmental requirements		
Limit temperature range	-60 ... +100 °C	
Processing temperature	-35 ... +60 °C	



Commercial data		
Product Group	26 (picoMAX Connectors)	
eCl@ss 10.0	27-14-11-06	
eCl@ss 9.0	27-14-11-06	
ETIM 8.0	EC001284	
ETIM 7.0	EC001284	
PU (SPU)	50 pcs	
Packaging type	Box	
Country of origin	DE	
GTIN	4050821161882	
Customs tariff number	85366930000	

Environmental Product Compliance		
RoHS Compliance Status	Compliant,No Exemption	

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	IEC 61984	NL-49736/A1
CSA DEKRA Certification B.V.	C22.2	2362521
CSA DEKRA Certification B.V.	C22.2 No. 158	2362521
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-102260 REV.1
UL Underwriters Laboratories Inc.	UL 1977	E45171
UR Underwriters Laboratories Inc.	UL 1059	E45172

Downloads

Environmental Product Compliance		
Compliance Search		
Environmental Product Compliance 2091-1638/024-000		



Documentation

Additional Information			
Technical Section	03.04.2019	pdf 2010.85 KB	↓

CAD/CAE-Data

CAD data
2D/3D Models 2091-1638/024-000
↓

CAE data
ZUKEN Portal 2091-1638/024-000
↓

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



[Item No.: 2091-1128](#)
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 8-pole; 1,50 mm²; light gray

1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Coding

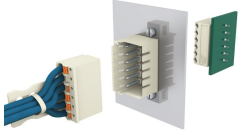


[Item No.: 2091-1610](#)
Coding key carrier; suitable for 3.5 mm pin spacing; orange

Installation Notes



"Wire-to-wire" panel feedthrough connection
Notice: Male connectors must not be live when disconnected!



"Wire-to-board" panel feedthrough connection