DIN 41612 / IEC 60603-2 Connectors

Electrical and Mechanical Characteristics

	Standard	H11	H15, H-F (data only for Contacts)
Number of Pins		11	15, 7/24 (7 Power/24 Signal)
Technical data			
Climate Category	DIN EN 60068-1 test b	55/125/56	55/125/56
Temperature range		-55/125 °C	-55/125 °C
Current rating	IEC60512 test 5b	Ambient temperature 20 °C 15 A 70 °C 11 A 100 °C 7.5 A	Ambient temperature 20 °C 15 A 70 °C 11 A 100 °C 7.5 A
Clearance and creepage distance		contact - contact 4.5 mm (clearance) contact - ground 4.5 mm (clearance) contact - contact 8 mm contact - ground 8 mm	contact - contact 4.5 mm (clearance) contact - ground 4.5 mm (clearance) contact - contact 8 mm contact - ground 8 mm
CTI value	IEC 60112	175	175 225 (H11 solder, pressfit)
Voltage rating	IEC 60664	Has to be determined according to customer application (degree of environmental pollution) according to IEC 60664	Has to be determined according to customer application (degree of environmental pollution) according to IEC 60664
Dielectric strength	IEC 60512	contact - contact 3100 V_{rms} contact - ground 3100 V_{rms}	contact - contact 3100 V_{rms} contact - ground 3100 V_{rms}
Contact resistance	IEC 60512 test 2a	< 8 mΩ	< 8 mΩ
Insulation resistance	IEC 60512 test 3a	> 10^4 MΩ	> 10^4 MΩ
Vibration sine	IEC 60512 test 6d	10 – 2000 Hz 20 g	10 – 2000 Hz 20 g
Contact interruption (while vibration test)	IEC 60512 test 2e	< 1 µs	< 1 µs
Shock halfsine	IEC 60512 test 6c	50 g 11 ms	50 g 11 ms
Contact interruption (while shock test)	IEC 60512 test 2e	< 1 µs	< 1 µs
Mechanical operation (mating cycles)	IEC 60512 test 9a	Class 1: 500 mating cycles	Class 1: 500 mating cycles
Insertion and withdrawal force	IEC 60512 test 13b	max. 80 N	max. 90 N
Gauge retention force per contact	IEC 60512 test 16e	> 0.2 N	> 0.2 N

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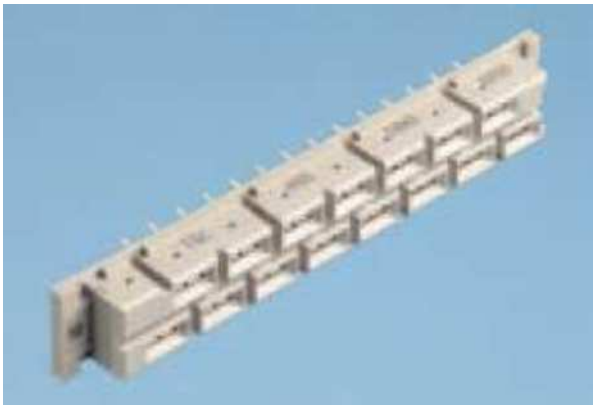
Electrical and Mechanical Characteristics

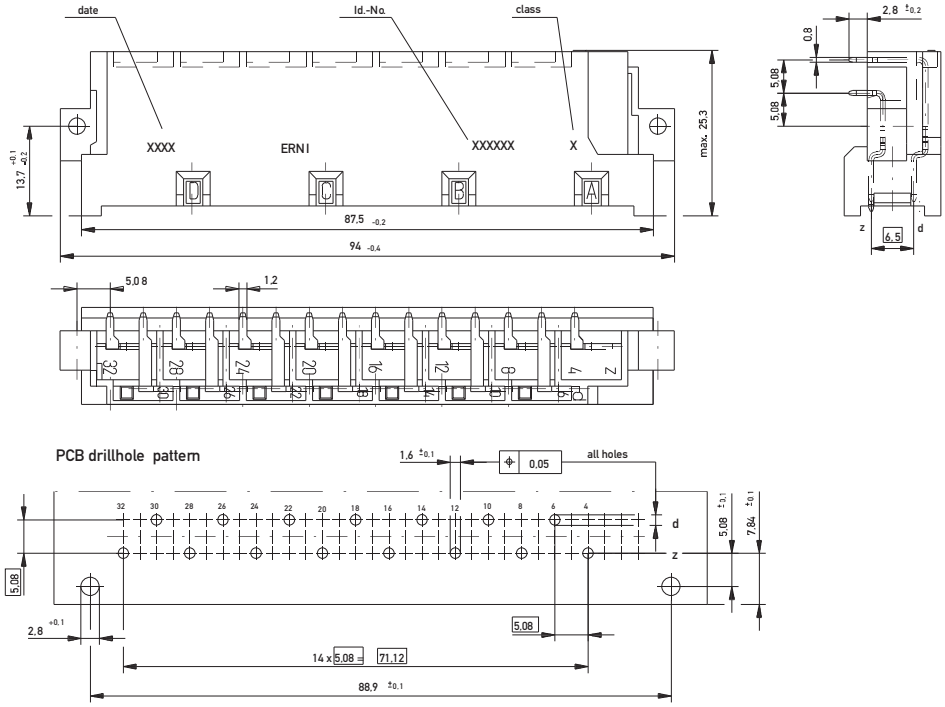
	Standard	H11	H15, H-F (data only for Contacts)
Number of Pins		11	15, 7/24 (7 Power/24 Signal)
Process-conditions			
Solder temperature max.	IEC 68-2-20		
Hand soldering temperature max.		3.5 s at 350 °C	3.5 s at 350 °C
Dip soldering temperature max.		10 s at 260 °C	10 s at 260 °C
Warning		Soldering of pressfit connectors not recommended.	Soldering of pressfit connectors not recommended.
Materials			
Housing: Plastic material (symbol)		PC GF LCP GF (Female Pressfit)	PC GF PBT GF (H11 solder, pressfit)
CTI value	IEC 60112	175	175 225 (H11 solder, pressfit)
UL flame rating		UL 94 V-1 UL 94 V-0 (Female Pressfit)	UL 94 V-1 UL 94 V-0 (H11 solder, pressfit)
UL file		E41613 E83005	E41613 E47960 (H11 solder, pressfit)
Contact and mating area			
Base material		Cu alloy	Cu alloy
Plating		Silver plated	Silver plated
Termination area			
Base material		Cu alloy	Cu alloy
Plating		Sn	Sn
Environment compatibility			
Recycling		no flame-retardent additives, no toxic additives, allows easy recycling	
Product-approval and customer specific tests			
UL		E84703	E84703
CSA		LR62504	LR62504

DIN 41612 / IEC 60603-2 Connectors

Type H15



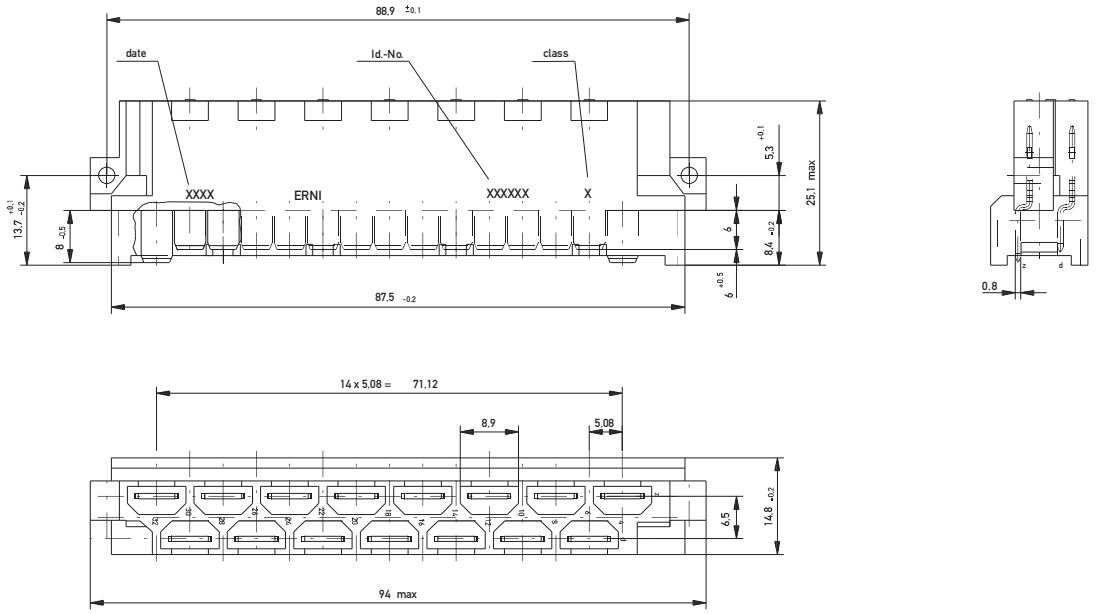
Dimensional Drawing Solder Male



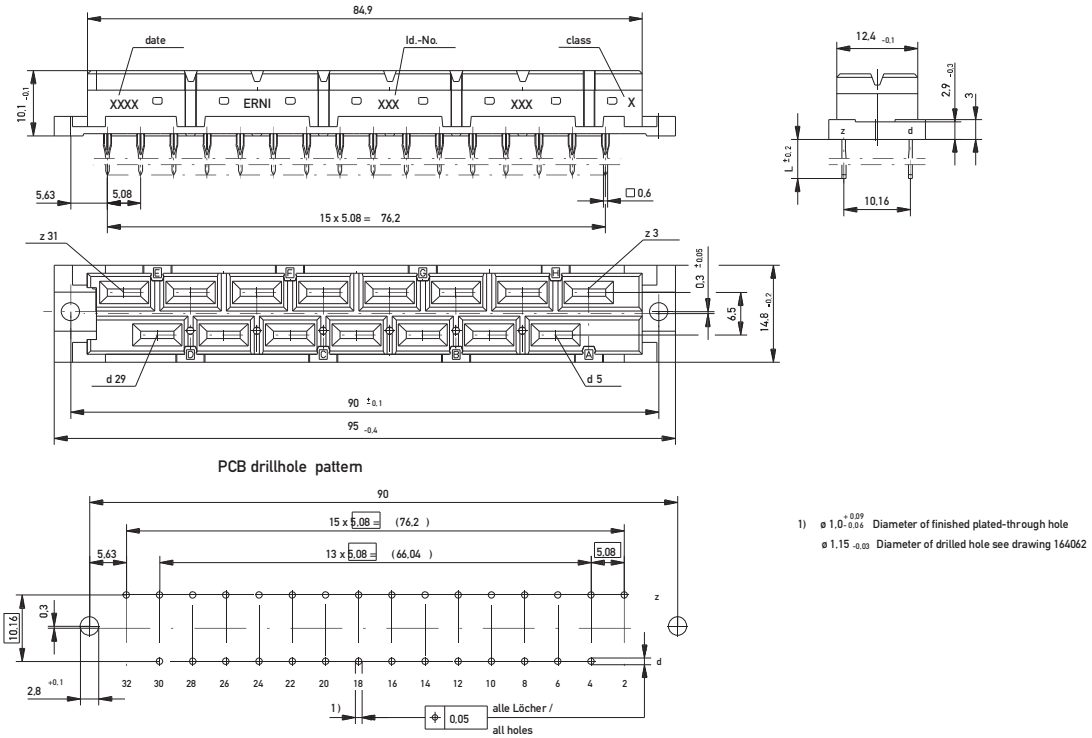
DIN 41612 / IEC 60603-2 Connectors

Type H15

Dimensional Drawing Faston Male



Dimensional Drawing Pressfit Female

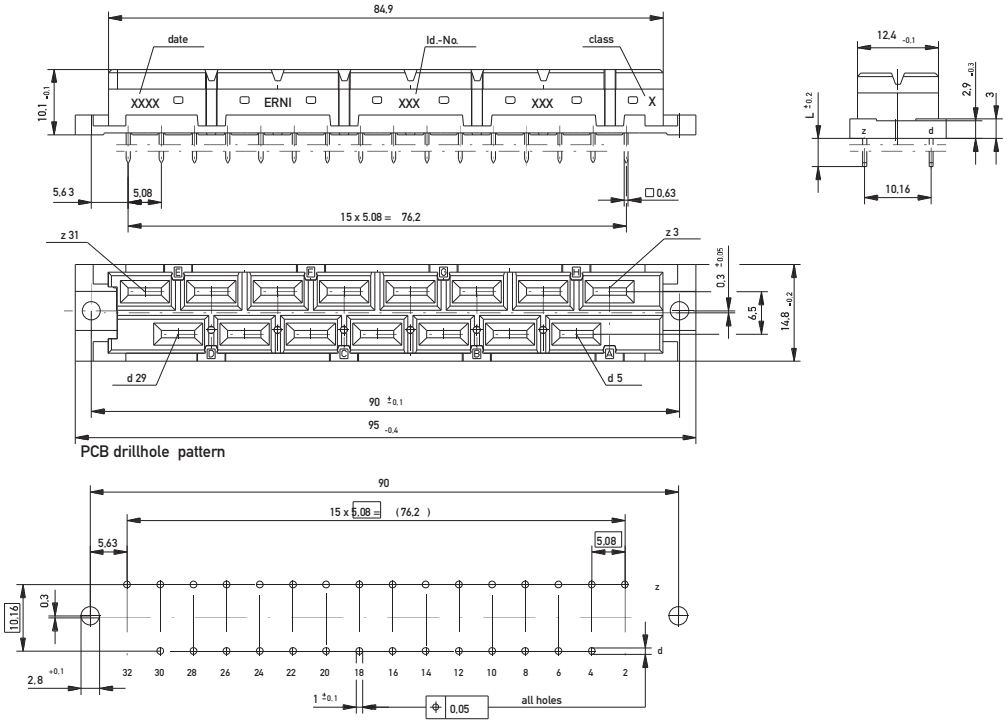


1) ø 1,0 +0,09 -0,06 Diameter of finished plated-through hole
ø 1,15 -0,03 Diameter of drilled hole see drawing 164062

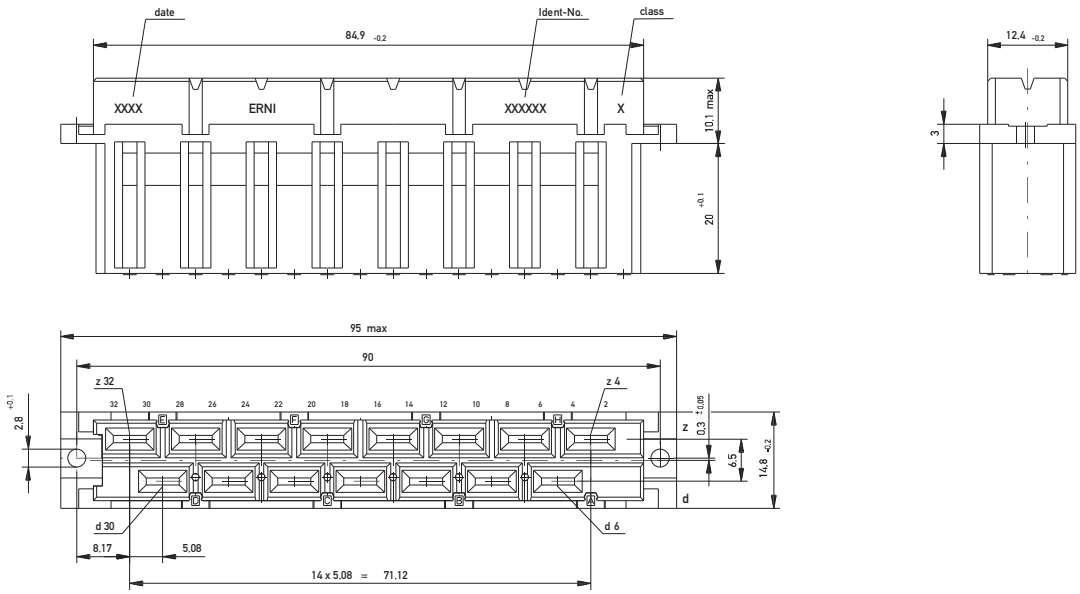
DIN 41612 / IEC 60603-2 Connectors

Type H15

Dimensional Drawing Solder Female



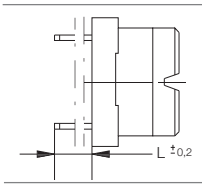
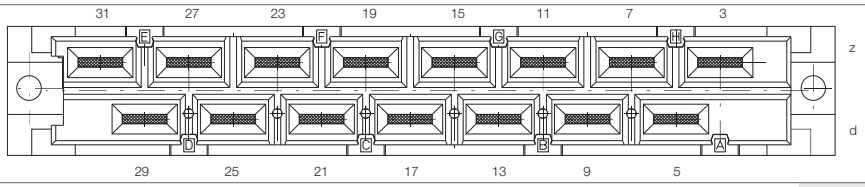
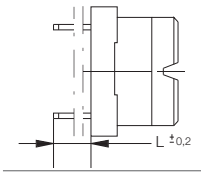
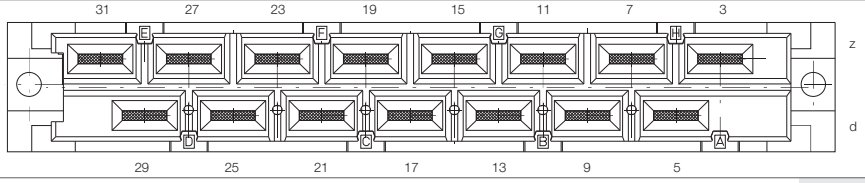
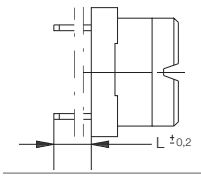
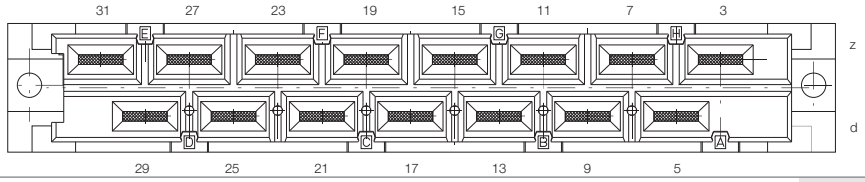
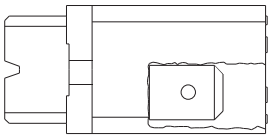
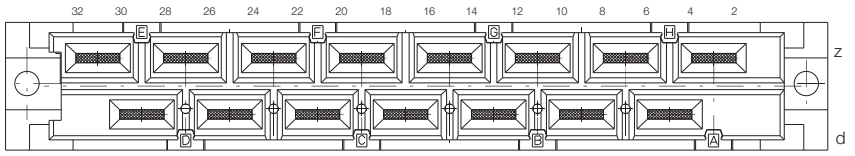
Dimensional Drawing Faston Female



DIN 41612 / IEC 60603-2 Connectors

Type H15 Female

Ordering Information

No. of Pins	Termination	Term. Length	Pin Dimensions	Class	Pressfit Zone	Part Number
 						
15	Pressfit	6 mm	0.6 x 0.6 mm	1	2.5 mm	**594752**
 						
15	Solder	4.3 mm	1.2 x 0.6 mm	1	–	**594750**
 						
15	Solder	4.3 mm	0.6 x 0.6 mm	1	–	**594751**
 						
15	Faston			1	–	**413170**