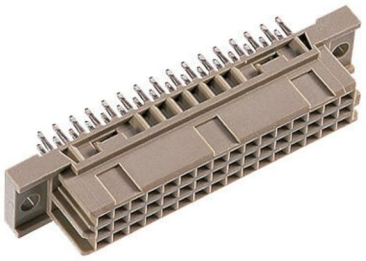
Product Data Sheet

DIN 41612 straight spring-loaded connector (Female) type C/2, Part No. 304-90014-05TH



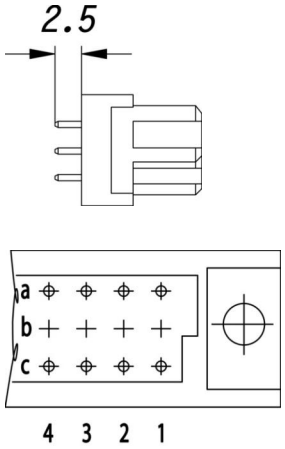


Illustration similar

Parallel | Perpendicular | Through Hole | Rugged

- tail length 2.5 mm
- number of positions: 32
- THR
- performance level 2

» to product on www.ept.de

» to product group DIN 41612

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Technical Specifications

Basics

Specification	IEC 60603-2 (DIN 41612)
Performance Level	2
No. of Contacts	32
Termination Technology	THR
Termination Length	2.5 mm
Board-to-Board Distance	16.85 mm
Operating Temperature Range	-55°C to +125°C

Material

Insulator Material	glass-fiber reinforced PA, UL 94 V-0
CTI value *IEC 60112*	600
Contact Material	copper alloy

Mechanical

Pitch	2.54 mm
Mating Force	30 N
Separating Force per Pin	> 0.15 N
Durability	400 mating cycles

Electrical

Operational Current	2.6 A
Test Voltage	1000 V
Contact Resistance	20 mΩ
Clearance and Creepage	≥ 1.2 mm
Insulation Resistance	$>10^6$ MΩ

Processing

Soldering Temperature	260°C according to J-STD-020
MSL	1

Approval / Compliance

UL file	E130314
Environment	RoHS compliant

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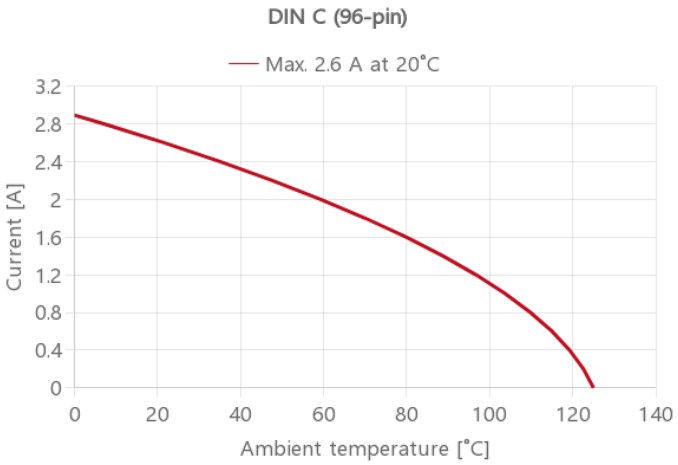
Derating Diagram



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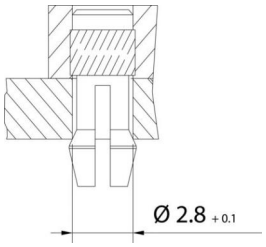
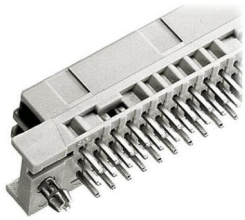
Options

Board Lock

Suitable for connectors with type B, C, D, E, F low profile, G low profile, M female connectors and R male connectors





	Forces			Part Number	PCB Thickness
Type of Insertion	F_m	not soldered F_h	soldered F_h	304-90014-05THC1	1.6 mm
Locked	< 20 N	> 10 N	> 25 N	304-90014-05THC2	2.4 mm
Under Tension	< 20 N	> 5 N	> 25 N	304-90014-05THC3	3.6 mm

Modifications

Available on request

- without mounting flange
- Special lengths for connections
- Grade I + III or custom
- custom loading

Accessories

» DIN 41612 keying, type B and C
Part Number 104-19003

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Drawings

Component data in 2D and 3D format you can download here:

» PDF » 3D IGES » 3D STEP » 3D PDF

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