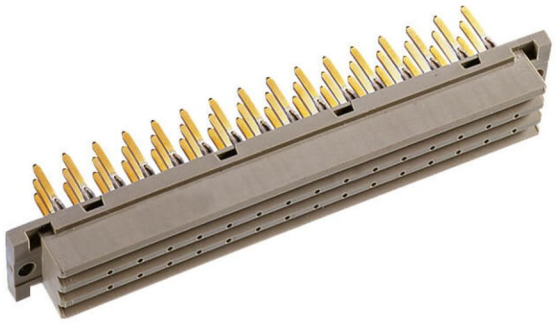
Product Data Sheet

DIN 41612 straight spring-loaded connector, type F, flat, Part No. 110-40504



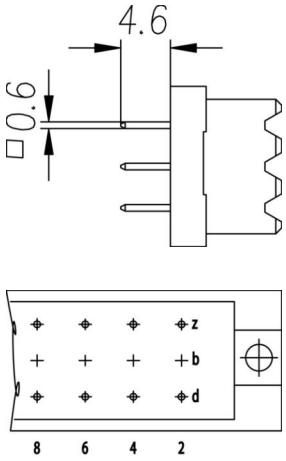


Illustration similar



Parallel | Perpendicular | Through Hole | Power | Rugged

- Connector length: 4.6 mm
- Number of poles: 32
- Soldering Techniques
- Grade 2

» to product on www.ept.de

» to product group DIN 41612

ept GmbH | Bergwerkstr. 50 | 86971 Peiting | Tel. +49 (0) 8861 / 25 01 0 | Fax +49 (0) 8861 / 55 07 | sales@ept.de | **www.ept.de**

Downloaded from Arrow.com.

Product Data Sheet

DIN 41612 straight spring-loaded connector, type F, flat, Part No. 110-40504

Technical Specifications

Basics

Specification	IEC 60603-2 (DIN 41612)
Performance Level	2
No. of Contacts	32
Termination Technology	Soldering Techniques
Termination Length	4.6 mm
Board-to-Board Distance	24.4 mm
Operating Temperature Range	-55°C to +125°C

Material

Insulator Material	Glass-fiber-reinforced PBT, UL 94 V-0
CTI value *IEC 60112*	200
Contact Material	copper alloy

Mechanical

Pitch	5.08 x 3.81 mm
Mating Force	50 N
Separating Force per Pin	>0.2 N
Durability	400 insertion cycles

Electrical

Operational Current	5.6 A
Test Voltage	1550 V
Contact Resistance	15 mΩ
Clearance and Creepage	W: ≥ 3.0 mm, L: ≥ 1.6 mm
Insulation Resistance	$>10^6$ MΩ

Processing

Soldering Temperature	up to 260°C

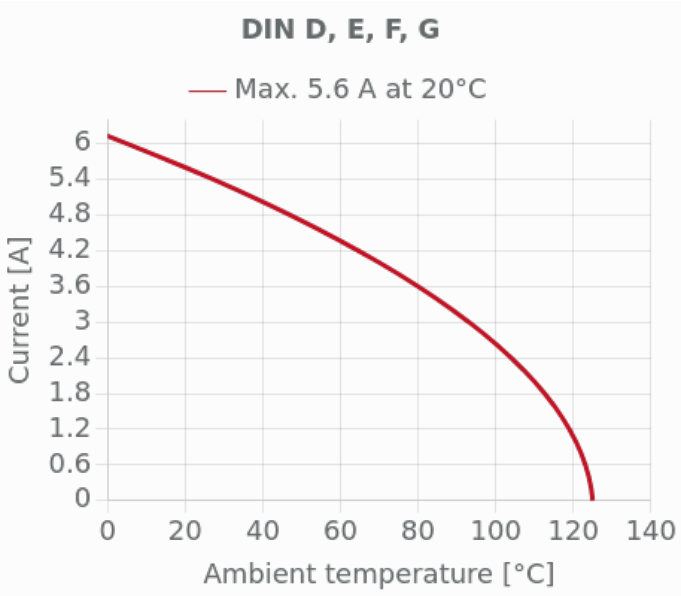
Approval / Compliance

UL file	E130314
Environment	RoHS compliant

ept GmbH | Bergwerkstr. 50 | 86971 Peiting | Tel. +49 (0) 8861 / 25 01 0 | Fax +49 (0) 8861 / 55 07 | sales@ept.de | **www.ept.de**

Downloaded from Arrow.com.

Derating Diagram

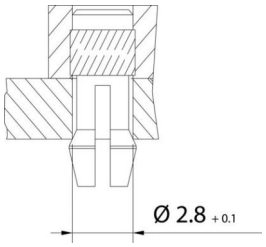


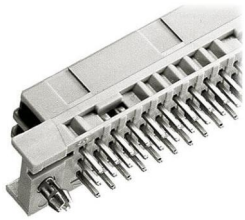
Downloaded from Arrow.com.

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	110-40504C1	1.6 mm
Locked	< 20 N	> 10 N	> 25 N	110-40504C2	2.4 mm
Under Tension	< 20 N	> 5 N	> 25 N	110-40504C3	3.6 mm

Modifications

Available on request

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

Drawings

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

» PDF » 3D IGES » 3D STEP » 3D PDF

Downloaded from Arrow.com.