



DIN 41612 High Temperature Grade Connectors (HT Series)

EN45545 Compliant for fire safety applications

**Amphenol
FCi**

DIN 41612 High Temperature Grade

Overview

Compliance to EN 45545 and other international standards

- AFci High Temperature (HT) DIN is most suitable for hazardous and high risk product platforms of fire safety applications required in the industrial market.
- Railway applications as per unified EU safety standard under EN45545 calls for high temperature grade material for the connectors. AFci uses certified materials for the high temperature DIN and complies to the following standards:
 - DIN 41612
 - IEC 60603-2
 - NFF 16-101/102
 - EN45545
- AFci advantage
 - Compliance to all the standards
 - Competitive service levels
 - Custom solutions

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Fire and Smoke Protection

- The material used in DIN HT series conforms to below indices of EN 45545:
 - Oxygen index to EN ISO 4589-2
 - Smoke density to EN ISO 5659-2
 - Smoke Toxicity to NF X70-100-1/-2

- Limit values specified under classes R22 and R23 and different severity levels

Class	Test Procedure	Parameter	Measuring Unit	Requirement Definition	HL1	HL2	HL3
R22	EN ISO 4589-2	OI	%	Minimum	28	28	32
	EN ISO 5659-2	Ds max	Dimensionless	Maximum	600	300	150
	NF X70-100-1/-2	CITNLP	Dimensionless	Maximum	1.2	0.9	0.75
R23	EN ISO 4589-2	OI	%	Minimum	28	28	32
	EN ISO 5659-2	Ds max	Dimensionless	Maximum	–	600	300
	NF X70-100-1/-2	CITNLP	Dimensionless	Maximum	–	1.8	1.5

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Market segment

Target application

- Railways
 - Locomotives
 - Onboard electronics
 - Signaling
- Automotive
 - Off road vehicles (military)
 - Heavy duty loaders, conveyers
- Industrial
 - Test and lab equipment
 - Process control
 - Robotics
 - Lighting & Displays
 - Energy distribution
- Medical
 - Imaging devices
 - Analyzers
 - Monitoring equipment



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Highlights

Features

- 2.54 mm & 5.08 mm Pitch
- High Temperature Housing Material
- Selective Contact Loading Patterns
- FMLB and LMEB Contacts
- Various termination types available

Benefits

- Adequate spacing for routing PCB traces
- Suitable for Reflow applications
- Facilitates Custom loading
- Grounding Option
- Flexible PCB Mounting Options

Available options

Description	Configuration	Loading
Style C Right Angle Header (STB)	3 row / 96 pos	a, b, c
	2 row / 64 pos	a & c
Style C Straight Receptacle (STB)	3 row / 96 pos	a, b, c
	2 row / 64 pos	a & c
Style C/2 Right Angle Header (STB)	3 row / 48 pos	a, b, c
	2 row / 32 pos	a & c
Style C/2 Straight Receptacle (STB)	3 row / 48 pos	a, b, c
	2 row / 32 pos	a & c



THANK YOU

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