



HDC FLOATING CHARGE CONNECTOR FOR AGV CHARGE

TE Connectivity (TE) Heavy Duty Connectors (HDC) now offering the HDC Floating Charge Connector for Warehouse Automation application. This charging connectors innovative technology has excellent capability, with up to 30,000 mating cycles to provide a highly reliable solution. Its clever floating system helps enable Autonomously Guided Vehicles (AGV) to automatically correct mating positions.

Additionally, its compact design with hybrid power and signal helps enable the miniaturization of vehicles.

TE HDC floating charge connector focus on providing your AGV / Autonomous Mobile Robot (AMR) a higher efficiency, more reliable and size reduced solution.

BENEFIT

- The size reduced design of AGV with compact hybrid system
- Improving power distribution capabilities with low temperature rise
- · High reliability performance with high mating cycles
- Floating correction guides with 0.5mm tolerance
- Safety operation with finger protection: Protect error finger touch for safety operation in field

KEY FEATURES

- Hybrid design: Power: 80A/250V *2pins Signal: 10A /60V *4pins
- Mating cycles: ≥30,000 cycles
- Floating design with 0.5 mm tolerance
- finger protection

APPLICATIONS

- Warehouse Automation
- AGV/AMR

ELECTRICAL

- Power: 80A/250V
- Signal: 10A/60V
- Rated impulse voltage:
 - Power: 4.0KV
 - Signal: 1.5KV
 - Pollution degree: 3
- Wire range:
 - Power: 10-16mm² (8-6AWG)
 - Signal: 0.14-2.5mm² (26-14AWG)
 - Contact type: crimp contact

MECHANICAL

- Acc. to EN 61984 Connectors
- Safety requirements and tests
- Mating cycles: 30000 cycles

STANDARDS

- EN 61984: connectors safety requirements and tests
- IEC 60068: environmental testing
- IEC 60512: connectors for electronic equipment test and measurements
- IEC 60529: degrees of protection provided by enclosures (IP Code)
- IEC 60664-1: insulation coordination for equipment within low-voltage systems (Part 1)
- EN 61373: railway application rolling stock equipment shock and vibration test
- ISO 6988: metallic and other non-organic coatings
 sulfur dioxide test with general condensation of moisture

SPECIFICATIONS

- <u>108-137613</u>
- <u>114-137613</u>

CERTIFICATION

- UL 1977
- TUV
- CE
- RoHS

Туре	Part Number	Part Description
Male insert	<u>T2120062101-001</u>	HK2/4-006-M
Female insert	T2120062201-001	HK2/4-006-F
Power contact (Male)	<u>T2400031100-002</u>	HSM-10 with cap(10 sq mm)
	<u>T2400031160-002</u>	HSM-16 with cap(16 sq mm)
Power contact (Female)	T2400032100-002	HSF-10(10 sq mm),high mating cycles
	T2400032160-002	HSF-16(16 sq mm),high mating cycles
Signal contact (Male)	<u>T2030031002-000</u>	HEM-0.3,L=28
	T2030031005-000	HEM-0.5,L=28
	<u>T2030031008-000</u>	HEM-0.75,L=28
	T2030031010-000	HEM-1.0,L=28
	T2030031015-000	HEM-1.5,L=28
	T2030031025-000	HEM-2.5,L=28
	<u>T2030031030-000</u>	HEM-3.0,L=28
	T2030031040-000	HEM-4.0,L=28

INDUSTRIAL / HDC FLOATING CHARGE CONNECTOR FOR AGV CHARGE

PART NUMBERS

HDC Floating Charge Connector for AGV Charge

Туре	Part Number	Part Description
Signal contact (Female)	T2030032002-000	HEF-0.3
	T2030032005-000	HEF-0.5
	T2030032008-000	HEF-0.75
	T2030032010-000	HEF-1.0
	T2030032015-000	HEF-1.5
	<u>T2030032025-000</u>	HEF-2.5
	T2030032030-000	HEF-3.0
	T2030032040-000	HEF-4.0

te.com

© 2023 TE Connectivity. All Rights Reserved.

TE Connectivity, TE connectivity (logo) and Every Connection Counts are trademarks owned or licensed by TE Connectivity. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

07/23 AK



