



## HDC-HK- HDW3/1/1-23/16/47

TE Connectivity (TE)'s Heavy Duty Connectors (HDC) deliver, reliable performance in harsh environments. Designed specifically for high performance EMC demand for industrial applications, the new HDC- HK-HDW3/1/1-23/16/47 combines power and signal in one small H10B hood with EMC shielding. The connector has high density, can contain 47 positions of signal (2.2A 32V), 16 positions of power (3.7 A 300V) and 23 positions of power (11A 400V).

The dynamic contact makes it possible to reduce cable assembly costs by using semi-automatic or fully-automatic crimping of dynamic contacts. Building on TE's dynamic contacts technology, the new HDC HK insert delivers performance comparable with traditional HDC connectors.

### BENEFITS

- One connector instead of two for signal and power transmission
- Space saving EMC shielding is integrated in the hybrid solution
- Box shaped contacts enable high density modular system in HDC connector
- One contact family for wire-to-board, wire-to-wire and heavy-duty cable-to-cable connections
- Designed for harsh (industrial) environments suitable for IP65 and IP68 / IP69K protection

## FEATURE

- **Hybrid Power+Signal**
  - Signal (HD1) 47P (2.2A 32V)
  - Power (HD1) 16P (3.7A 300V)
  - Power (HD3) 23P (11A 400V)
- **Reliable and high density**
  - Signal (HD1) 47P (2.2A 32V)
  - Power (HD1) 16P (3.7A 300V)
  - Power (HD3) 23P (11A 400V)
- EMC shielding
- Reliable dynamic stamping contact

## STANDARD

- **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

## APPLICATIONS

- Industrial robot
- Cobot
- SCARA robot
- Controller
- Machinery

## ELECTRICAL

- 2.2A/32V
- 3.7A/300V
- 11A/400V

## MECHANICAL

- Housing locking strength
- 100 N Min

## MATERIALS

- PBT GF

## SPECIFICATIONS

- [108-137458](#)

# HDC-HK-HDW3/1/1-23/16/47

## PART NUMBER LIST

Type	Part Number	Part Description	Images
Male Insert	<a href="#">T2120865101-000</a>	HK-HDW3/1/1-23/16/47-M	
Female Insert	<a href="#">T2120865201-000</a>	HK-HDW3/1/1-23/16/47-F	
Shielding plate Option 1, Male insert in hood side	<a href="#">T0920013670-000</a>	M SHIELD PLATE FOR HK-HDW3/1/1, BENDED	
	<a href="#">T0920023670-000</a>	F SHIELD PLATE FOR HK-HDW3/1/1, STRAIGHT	
Shielding plate Option 2, Female insert in hood side	<a href="#">T0920013670-001</a>	M SHIELD PLATE FOR HK-HDW3/1/1, STRAIGHT	
	<a href="#">T0920023670-002</a>	F SHIELD PLATE FOR HK-HDW3/1/1, BENDED	
Hood with 2 holes	<a href="#">T1220102025-000</a>	H10B-TG-M20/25, SHORT RIB	
Hood with 1 top entry hole	<a href="#">T1240100132-002</a>	H10B-TGH-M32, SHORT RIB	
Hood with 1 side entry hole	<a href="#">T1230100132-002</a>	H10B-TSH-M32, SHORT RIB	
Housing	<a href="#">T1410100000-001</a>	H10B-AG-SL, ONE RIB	

**Note:**

- \* Depends on insert installation type to selective one option of shielding plate
- \* Depend on cable type to select one type of hood.

# HDC-HK-HDW3/1/1-23/16/47

Series Items	Contact Size (Insulation range (mm))	Applicable Contact	
		Tab	Receptacle
		Part Number	Part Number
HK-HDW3/1/1-23/16/47- M/F POWER (23 POS)	S (0.8-1.4)	2316815-1: Reel 2316817-1: L/P	2298107-1: Reel 2311162-1: L/P
	M (1.2-2.6)	2316815-2: Reel 2316817-2: L/P	2298107-2: Reel 2311162-2: L/P
	L (1.8-2.8)	2316815-3: Reel 2316817-3: L/P	2298107-4: Reel 2311162-4: L/P
	2L (2.2-2.8)	2316815-4: Reel 2316817-4: L/P	2316815-5: Reel 2298107-5: Reel
	3L (3.1-3.4)	2316815-5: Reel	2298107-5: Reel
	3L (3.1-3.8)	2316817-5: L/P	2311162-5: L/P
HK-HDW3/1/1-23/16/47- M/F POWER (16 POS)	S (0.6-1.2)	2316663-1: Reel 2316669-1: L/P	2316670-1: Reel 2316671-1: L/P
	M (1.08-1.6)	2316663-2: Reel 2316669-2: L/P	2316670-2: Reel 2316671-2: L/P
	L (1.08-1.9)	2316663-3: Reel 2316669-3: L/P	2316670-3: Reel 2316671-3: L/P
	2L (1.4-2.2)	2316663-4: Reel 2316669-4: L/P	2316670-4: Reel 2316671-4: L/P
HK-HDW3/1/1-23/16/47- M/F SIGNAL (47 POS)	S (0.6-1.2)	2316663-1: Reel 2316669-1: L/P	2316670-1: Reel 2316671-1: L/P
	M (1.08-1.6)	2316663-2: Reel 2316669-2: L/P	2316670-2: Reel 2316671-2: L/P

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