

Product data sheet

H8FA-PS050

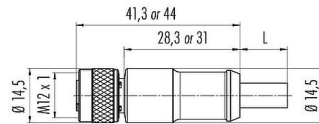
M12 Female cable connector, Contacts: 8, shielded, moulded on the cable
IP67, UL 2238, PUR, black, 8 x 0.25 mm², 5 m

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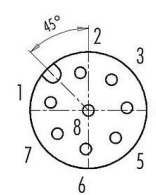
Illustration



Scale drawing



Contact arrangement (Plug-in side)



- 1 white
- 2 brown
- 3 green
- 4 yellow
- 5 grey
- 6 pink
- 7 blue
- 8 red

Shielded versions:
shield = housing

HM 2508

Technical data

General features

Part no.	H8FA-PS050
Connector design	Female cable connector
Type standard	DIN EN 61076-2-101
Cable length	5 m (Standard 5m. 2m and 10m are available on request.)
Version	Connector socket straight
Connector locking system	screw
Termination	moulded on the cable
Degree of protection	IP67
Connection cross-section	0.25 mm ² / AWG 24
Temperature range from/to	-25 °C / 90 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	305.35
Customs tariff number	85444290
Country of Origin	DE

Electrical parameters

Rated voltage	30 V
Rated voltage UL	2457
Rated impulse voltage	800 V
Rated current	2.0 A
Insulation resistance	≥ 10 ¹⁰ Ω

Date: 15.08.2025

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Pollution degree	3
Overvoltage category	II
Insulating material group	II
EMC compliance	shielded
Shield connection	Shield on the threaded ring

Material

Housing material	PUR
Contact body material	PUR
Contact material	CuSn (bronze)
Contact plating	Au (gold)
Locking material	CuZn (brass)
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	e8234312-4c4d-494a-acc8-309aba7e96b3

Authorization/approvals

Approvals	UL 2238
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Classifications

ETIM 9.0	EC002638
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Declarations of conformity

RoHS Directive	2011/65/EU (EN 50581:2012)
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Cable data - Structure of the cable

Cable diameter	6.0 mm
Cross section	8 x 0.25 mm ²
Sheath material	PUR
Single-lead insulation	PP9Y halogen-free
Single-lead structure	32 x 0.10 mm
Cable color	black

Cable data - Electrical properties

Conductor resistance	79 Ω/Km (20°C)
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Cable data - Mechanical properties

Bending radius, fixed cable	≥ 5 x Ø
Bending radius, moving cable	≥ 10 x Ø
Bending cycles	> 2 million
Permitted acceleration	5 m/s ²
Travel distance, horizontal	5 m/s ² -> 5 m

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Travel distance, vertical	5 m/s ² -> 2 m
Travel speed	≤ 200 m/min (5 m horizontal distance)

Cable data - Thermal properties

Temperature range cable in move from/to	-25 °C / 90 °C
Temperature range cable fixed from/to	-50 °C / 90 °C

Cable data - Other features

Halogen free	yes
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