Product data sheet
Automation technology - sensors and actuators

Product description
M12-A female cable connector, Contacts: 4, shielded, moulded on cable, IP67, UL listed, PVC grey, 4 x 0.34 mm²

Area
M12-A series 763

Order number
77 3530 0000 20704-0500

Technical data

General features
Order number
77 3530 0000 20704-0500
Notice
Please note that, due to the change from the old to the new order number, there may be deviations in the technical specifications. For questions about product details, please use the ‘Contact Customer Service’ form on the right.
Connector design
female cable connector
Version
connector female
Connector locking system
screw
Termination
moulded on cable
Degree of protection
IP67
Cross-sectional area
0.34 mm² / AWG 22
Temperature range from/to
-25 °C / 90 °C
Mechanical operation
> 100 Mating cycles
Weight (g)
551
Customs tariff number
85444290

Material
Housing material
PUR
Contact body material
PUR
Contact material
CuSn (bronze)
Contact plating
Au (gold)
Locking material
CuZn (Brass nickel plated)

Cable data
Cable length
5 m
Sheath material
PVC
Single-lead insulation
PVC
Halogen free
No
Cable color
grey
Cable diameter
5.4 mm
Single-lead structure
42x0.1 mm
Conductor resistance
57
Temperature range cable in move from/to
-25 °C / +105 °C
Temperature range cable fixed from/to
-40°C / +105°C
Bending radius, fixed cable
≥ 5 x Ø
Bending radius, moving cable
≥ 10 x Ø
Bending cycles
≥ 2 Mio.
Permitted acceleration
max. 5 m/s² + 1 m/s²
Travel distance, horizontal
5 m/sec² → 5 m
Travel distance, vertical
5 m/sec² → 2 m
Travel speed
≤ 200 m/min (5 m horizontal distance)

Electrical parameters
Rated voltage
250 V
Rated impulse voltage
2500 V
Rated current (40 °C)
4 A
Insulation resistance
≥ 10¹⁰ Ω
Pollution degree
3
Overvoltage category
II
Insulating material group
II
EMC compliance
shielded

Authorization/approvals
Approval 1
UL listed

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Declarations of conformity

Low Voltage Directive

RoHS Directive
2011/65/EU (EN 50581:2012)
Security notices

The connector must not be plugged or unplugged under load. Non-observance and improper use can result in personal injury.

The connectors have been developed for applications in plant engineering, control and electrical equipment construction. The user is responsible for checking whether the connectors can also be used in other areas of application.

Plug connectors with enclosure protection IP 67 and IP 68 are not suitable for use under water. When used outdoors, the plug connectors must be protected separately against corrosion. For further information on the IP protection classes, please refer to the "Technical Information" download centre.

To lock the cable connector with the device connector, the threaded ring is tightened "hand-tight" (approx. 60 cNm).