Product data sheet

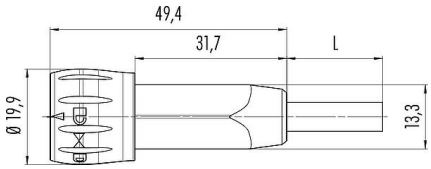
Miniature connectors

Product description	**Bayonet Male cable connector, Contacts: 8, unshielded, solder, IP67, PVC, grey, 8 x 0.25 mm², 5 m**
Area	**Bayonet NCC**
Series	**770**
Part no.	**77 6065 0000 20008-0500**

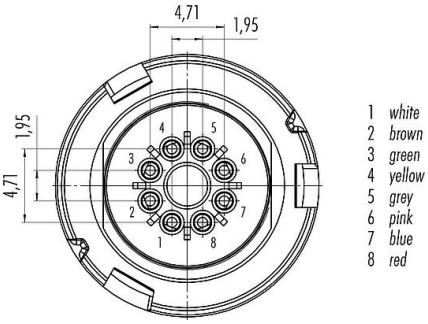
Illustration (may vary)



Scale drawing



Contact arrangement (Plug-in side)



Cable length tolerance

cable length	tolerance
≥ 0,10 m	+ 0,03 m
≥ 0,20 m	+ 0,04 m
≥ 0,50 m	+ 0,07 m
≥ 1,00 m	+ 0,10 m
≥ 2,00 m	+ 0,15 m
≥ 5,00 m	+ 0,20 m
≥ 10,0 m	+ 0,25 m
≥ 20,0 m	+ 0,35 m

Technical data

General features

Part no.	77 6065 0000 20008-0500
Connector design	Male cable connector
Cable length	5 m (Standard 2 m and 5 m. Other lengths are available on request.)
Version	Connector pin straight
Connector locking system	Bayonet
Termination	solder
Degree of protection	IP67
Connection cross-section	0.25 mm² / AWG 24

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Temperature range from/to	-25 °C / 85 °C
Mechanical operation	> 5000 Mating cycles
Weight (g)	75.00
Customs tariff number	85444290
Country of Origin	DE

Electrical parameters

Rated voltage	175 V
Rated impulse voltage	1750 V
Rated current	2.0 A
Insulation resistance	≥ 10^{10} Ω
Pollution degree	2
Overvoltage category	II
Insulating material group	II
EMC compliance	unshielded

Material

Housing material	PUR
Contact body material	PA
Contact material	CuZn (brass)
Contact plating	Au (gold)
Locking material	PA
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	193e297f-69e5-4a0c-9921-69a1a0df9e38

Cable data - Structure of the cable

Cable diameter	6.0 mm
Cross section	8 x 0.25 mm²
Sheath material	PVC
Single-lead insulation	PVC
Single-lead structure	32 x 0.10 mm
Cable color	grey

Cable data - Electrical properties

Cable Insulation resistance	> 200 Ω/Km
Operating voltage	≤ 300 V
Conductor resistance	79 Ω/Km (20°C)

Cable data - Mechanical properties

Bending radius, fixed cable	≥ 5 x Ø
Bending radius, moving cable	≥ 10 x Ø
Bending cycles	> 2 million
Permitted acceleration	max. 5 m/s² + 1 m/s²
Travel distance, horizontal	at 5 m/s² -> 5 m
Travel distance, vertical	at 5 m/s² -> 2 m

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Travel speed	at 5 m horizontal path -> 200 m/min

Cable data - Thermal properties

Temperature range cable in move from/to	-5 °C / 105 °C
Temperature range cable fixed from/to	-40 °C / 105 °C

Cable data - Other features

Halogen free	no

Classifications

ETIM 9.0	EC002638

Declarations of conformity

Low Voltage Directive	EN 60529:1991 | EN 60204-1:2018
RoHS Directive	EN IEC 63000:2018

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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.

To protect against unintentional opening of the connector, the thread between the housing and the connector head must be secured with a suitable cyanoacrylate adhesive when used in circuits with voltages dangerous to the touch. This does not apply to connectors used in SELV and PELV circuits according to IEC 61140 (EN 61140, VDE 0140-1).

Connectors which are used in circuits with voltages dangerous to the touch may only be installed and used by, or under the supervision of, persons with electrical engineering training, taking into account the applicable regulations and standards.

The user must take suitable safety precautions to ensure that the connector cannot be accidentally disconnected.

Plug connectors with enclosure protection IP67 and IP68 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.

Please observe the pollution degree and the overvoltage category. For further information, please refer to the download center "Technical Information".