Product data sheet Miniature connectors



Product description

M16 Female angled connector, Contacts: 6, unshielded, moulded on the cable, IP68, PUR, black, 6 x 0.25 mm², 2 m

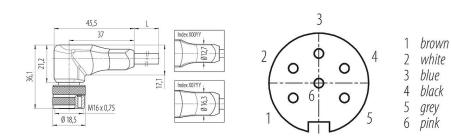
Area Part no. series 425 77 6434 0000 50006-0200

Illustration

Scale drawing

Contact arrangement (Plug-in side)





Technical data

General features

Part no.	77 6434 0000 50006-0200
Connector design	Female angled connector
Cable length	2 m (Standard 2 m and 5 m. Other lengths are available on request.)
Version	Connector socket angled
Connector locking system	screw
Termination	moulded on the cable
Degree of protection	IP68
Cross-sectional area	0.25 mm² / AWG 24
Temperature range from/to	-25 °C / 85 °C
Mechanical operation	> 1000 Mating cycles
Weight (g)	0.00
Customs tariff number	85444290
Country of Origin	DE

Electrical parameters

Rated voltage	150 V
Rated impulse voltage	1500 V
Rated current	3,0 A
Insulation resistance	≥ 10 ¹⁰ Ω
Pollution degree	2
Overvoltage category	I
Insulating material group	III
EMC compliance	unshielded

Material

Housing material	PUR
nousing material	
Contact body material	PA (UL94 V-0)
Contact material	CuZn (brass)

Product data sheet Miniature connectors



Product description

M16 Female angled connector, Contacts: 6, unshielded, moulded on the cable, IP68, PUR, black, 6 x 0.25 mm², 2 m

Area Part no. series 425 77 6434 0000 50006-0200

Contact plating Au (gold) REACH SVHC None (No pollutants) SCIP number SCIP-number not available Declarations of conformity SCIP-number not available Low Voltage Directive 2014/35/EU (EN 60204-1:2013/EN 60529:1991) RoHS Directive 2011/65/EU (EN 50581:2012) Cable data - Structure of the cable S0 mm Coss cection 6 x 0.25 mm² Single-lead insulation PUR Single-lead insulation PUR Single-lead insulation PUR Cable data - Mechanical properties S1 0 mm Cable data - Mechanical properties S2 x 0.10 mm Bending radius, fixed cable 5 x Ø Bending radius, moving cable 10 x Ø Cable data - Thermal properties		
SCIP number SCIP-number not available Declarations of conformity 2014/35/EU (EN 60204-1:2018/EN 60529:1991) Low Voltage Directive 2014/35/EU (EN 60204-1:2018/EN 60529:1991) RoHS Directive 2011/65/EU (EN 50581:2012) Cable data - Structure of the cable 2011/65/EU (EN 50581:2012) Cable data - Structure of the cable 5.0 mm Cable data - Structure of the cable 9.0 mm Cable data - Structure of the cable 9.0 mm Single-lead insulation 6 x 0.25 mm ² Single-lead insulation PUR Single-lead insulation 9.0 mm Cable color 22 x 0.10 mm Cable color black Cable color black Cable color 10 x Ø Cable data - Mechanical properties 10 x Ø Cable data - Thermal properties 10 x Ø Temperature range cable in move from/to -25 °C / 80 °C Temperature range cable in move from/to -25 °C / 80 °C Temperature range cable in move from/to -25 °C / 80 °C Cable data - Other features 25 °C / 80 °C	Contact plating	Au (gold)
Declarations of conformity Low Voltage Directive 2014/35/EU (EN 60204-1:2018;EN 60529:1991) RoHS Directive 2011/65/EU (EN 50581:2012) Cable data - Structure of the cable 2011/65/EU (EN 50581:2012) Cable data - Structure of the cable 5.0 mm Cable data - Structure of the cable 5.0 mm Cable data - Structure of the cable 5.0 mm Cable data - Structure of the cable 5.0 mm Single-lead insulation 6 x 0.25 mm ² Single-lead insulation PP9Y halogen-free Single-lead insulation PP9Y halogen-free Single-lead structure 32 x 0.10 mm Cable color black Cable data - Mechanical properties Bending radius, fixed cable 5 x Ø Bending radius, moving cable 10 x Ø Cable data - Thermal properties Temperature range cable in move from/to -25 °C / 80 °C Temperature range cable fixed from/to -50 °C / 80 °C Cable data - Other features		
Low Voltage Directive 2014/35/EU (EN 60204-1:2018;EN 60529:1991) RoHS Directive 2011/65/EU (EN 50581:2012) Cable data - Structure of the cable 5.0 mm Cable diameter 5.0 mm Cross section 5 x 0.25 mm² Sheath material PUR Single-lead insulation PP9Y halogenfree Single-lead structure 22 x 0.10 mm Cable data - Mechanical properties black Bending radius, fixed cable 5 x Ø Bending radius, moving cable 10 x Ø Cable data - Thermal properties -25 °C / 80 °C Temperature range cable fixed from/to -50 °C / 80 °C Temperature range cable fixed from/to -50 °C / 80 °C Cable data - Other features -25 °C / 80 °C	SCIP number	SCIP-number not available
Low Voltage Directive 2014/35/EU (EN 60204-1:2018;EN 60529:1991) RoHS Directive 2011/65/EU (EN 50581:2012) Cable data - Structure of the cable 5.0 mm Cable diameter 5.0 mm Cross section 5 x 0.25 mm² Sheath material PUR Single-lead insulation PP9Y halogenfree Single-lead structure 22 x 0.10 mm Cable data - Mechanical properties black Bending radius, fixed cable 5 x Ø Bending radius, moving cable 10 x Ø Cable data - Thermal properties -25 °C / 80 °C Temperature range cable fixed from/to -50 °C / 80 °C Temperature range cable fixed from/to -50 °C / 80 °C Cable data - Other features -25 °C / 80 °C		
RoHS Directive 2011/65/EU (EN 50581:2012) Cable data - Structure of the cable Cross section 5.0 mm Cross section 6 x 0.25 mm² Sheath material PUR Single-lead insulation PP9Y halogen-free Single-lead structure 32 x 0.10 mm Cable color black Cable data - Mechanical properties black Cable data - Mechanical properties 10 x Ø Cable data - Thermal properties 10 x Ø Temperature range cable in move from/to -25 °C / 80 °C Temperature range cable fixed from/to -50 °C / 80 °C Cable data - Other features -50 °C / 80 °C	Declarations of conformity	
RoHS Directive 2011/65/EU (EN 50581:2012) Cable data - Structure of the cable Cross section 5.0 mm Cross section 6 x 0.25 mm² Sheath material PUR Single-lead insulation PP9Y halogen-free Single-lead structure 32 x 0.10 mm Cable color black Cable data - Mechanical properties black Cable data - Mechanical properties 10 x Ø Cable data - Thermal properties 10 x Ø Temperature range cable in move from/to -25 °C / 80 °C Temperature range cable fixed from/to -50 °C / 80 °C Cable data - Other features -50 °C / 80 °C		0014/05/511/51 (00041-0010-51 (0500-1001)
Cable data - Structure of the cable Cable data - Structure of the cable Cross section Sheath material PUR Single-lead insulation Single-lead insulation Single-lead structure Cable color Banding radius, fixed cable Bending radius, moving cable Stable data - Thermal properties Temperature range cable in move from/to -25 °C / 80 °C Cable data - Other features		
Cable diameter 5.0 mm Cross section 6 × 0.25 mm² Sheath material PUR Single-lead insulation PP9Y halogen-free Single-lead structure 32 × 0.10 mm Cable color black Cable color black Cable data - Mechanical properties 5 × Ø Bending radius, fixed cable 5 × Ø Bending radius, moving cable 10 × Ø Cable data - Thermal properties -25 °C / 80 °C Temperature range cable fixed from/to -25 °C / 80 °C Cable data - Other features -25 °C / 80 °C	ROHS Directive	2011/65/EU (EN 50581:2012)
Cable diameter 5.0 mm Cross section 6 × 0.25 mm² Sheath material PUR Single-lead insulation PP9Y halogen-free Single-lead structure 32 × 0.10 mm Cable color black Cable color black Cable data - Mechanical properties 5 × Ø Bending radius, fixed cable 5 × Ø Bending radius, moving cable 10 × Ø Cable data - Thermal properties -25 °C / 80 °C Temperature range cable fixed from/to -25 °C / 80 °C Cable data - Other features -25 °C / 80 °C	Cable data. Conversions of the cable	
Cross section6 x 0.25 mm²Sheath materialPURSingle-lead insulationPP9Y halogen-freeSingle-lead structure32 x 0.10 mmCable colorblackCable data - Mechanical propertiesBending radius, fixed cable5 x ØBending radius, moving cable10 x ØCable data - Thermal propertiesTemperature range cable in move from/to-25 °C / 80 °CTemperature range cable fixed from/to-50 °C / 80 °CCable data - Other features-50 °C / 80 °C	Cable data - Structure of the cable	
Sheath material PUR Single-lead insulation PP9Y halogen-free Single-lead structure 32 x 0.10 mm Cable color black Cable data - Mechanical properties black Bending radius, fixed cable 5 x Ø Bending radius, moving cable 10 x Ø Cable data - Thermal properties -25 °C / 80 °C Temperature range cable fixed from/to -25 °C / 80 °C Temperature range cable fixed from/to -50 °C / 80 °C	Cable diameter	5.0 mm
Single-lead insulation PP9Y halogen-free Single-lead structure 32 x 0.10 mm Cable color black Cable data - Mechanical properties 5 x Ø Bending radius, fixed cable 5 x Ø Bending radius, moving cable 10 x Ø Cable data - Thermal properties -25 °C / 80 °C Temperature range cable fixed from/to -50 °C / 80 °C Cable data - Other features -25 °C / 80 °C	Cross section	6 x 0.25 mm²
Single-lead structure 32 x 0.10 mm Cable color black Cable data - Mechanical properties 5 x Ø Bending radius, fixed cable 5 x Ø Bending radius, moving cable 10 x Ø Cable data - Thermal properties -25 °C / 80 °C Temperature range cable fixed from/to -25 °C / 80 °C Cable data - Other features -25 °C / 80 °C	Sheath material	PUR
Cable color black Cable data - Mechanical properties Bending radius, fixed cable 5 x Ø Bending radius, moving cable 10 x Ø Cable data - Thermal properties Temperature range cable in move from/to -25 °C / 80 °C Temperature range cable fixed from/to -50 °C / 80 °C Cable data - Other features	Single-lead insulation	PP9Y halogen-free
Cable data - Mechanical properties Bending radius, fixed cable 5 x Ø Bending radius, moving cable 10 x Ø Cable data - Thermal properties Temperature range cable in move from/to -25 °C / 80 °C Temperature range cable fixed from/to -50 °C / 80 °C Cable data - Other features -50 °C / 80 °C	Single-lead structure	32 x 0.10 mm
Bending radius, fixed cable 5 x Ø Bending radius, moving cable 10 x Ø Cable data - Thermal properties Temperature range cable in move from/to -25 °C / 80 °C Temperature range cable fixed from/to -50 °C / 80 °C Cable data - Other features -25 °C / 80 °C	Cable color	black
Bending radius, fixed cable 5 x Ø Bending radius, moving cable 10 x Ø Cable data - Thermal properties Temperature range cable in move from/to -25 °C / 80 °C Temperature range cable fixed from/to -50 °C / 80 °C Cable data - Other features -25 °C / 80 °C		
Bending radius, moving cable 10 x Ø Cable data - Thermal properties 10 x Ø Temperature range cable in move from/to -25 °C / 80 °C Temperature range cable fixed from/to -50 °C / 80 °C Cable data - Other features -25 °C / 80 °C	Cable data - Mechanical properties	
Bending radius, moving cable 10 x Ø Cable data - Thermal properties 10 x Ø Temperature range cable in move from/to -25 °C / 80 °C Temperature range cable fixed from/to -50 °C / 80 °C Cable data - Other features -25 °C / 80 °C		5.0
Cable data - Thermal properties Temperature range cable in move from/to Temperature range cable fixed from/to -25 °C / 80 °C Cable data - Other features		
Temperature range cable in move from/to -25 °C / 80 °C Temperature range cable fixed from/to -50 °C / 80 °C Cable data - Other features -50 °C / 80 °C	Bending radius, moving cable	10 X Ø
Temperature range cable in move from/to -25 °C / 80 °C Temperature range cable fixed from/to -50 °C / 80 °C Cable data - Other features -50 °C / 80 °C	Cable data Thermal properties	
Temperature range cable fixed from/to -50 °C / 80 °C Cable data - Other features -50 °C / 80 °C	Cable data - mermai properties	
Cable data - Other features	Temperature range cable in move from/to	-25 °C / 80 °C
	Temperature range cable fixed from/to	-50 °C / 80 °C
Halogen free yes	Cable data - Other features	
Halogen free yes		
	Halogen free	yes

Product data sheet Miniature connectors



Product description

M16 Female angled connector, Contacts: 6, unshielded, moulded on the cable, IP68, PUR, black, 6 x 0.25 mm², 2 m

Area Part no. series 425 77 6434 0000 50006-0200

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.

The plug connector is not suitable for mains voltages Please observe the pollution degree and the overvoltage category. For further information, please refer to the download center "Technical Information".

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