

BULK CABLES

by Murrelektronik

↘ Sensor/actuator cables

- Unshielded
- Shielded

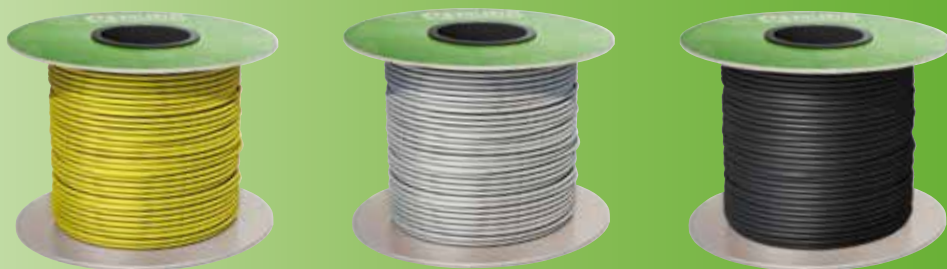
↘ Fieldbus cables

↘ Accessory



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STANDARD CABLE TYPES IN 3 COLORS



Any combination is possible!
Contact us for a individual
quote...

MURRELEKTRONIK'S BULK CABLES




Murrelektronik has a wide variety of sensor and actuator cables on drums in lengths from 100 m to 500 m which are all available immediately. Murrelektronik's ongoing relationship with many premium cable manufacturers worldwide ensures that you will receive a quality product at a fair price. You can choose from different jacket materials, colors, a cross sections and you will always get the right cable for your application.

You need a cable with UL/CSA approval? No problem! You can find many UL approved cables in our range. You can find field-wireable connectors for these cables in our online shop.

Ordering system

Create your article number in 3 easy steps:

1	Type of drum	05
	Choose a drum:	
	■ large drum (up to 500 m)	
2	Cable length	03
	Choose a cable length:	
	■ 300 m cable	
3	Jacket color	010
	Choose a jacket color:	
	■ Yellow	

UNSHIELDED SENSOR/ACTUATOR CABLES – PUR			
	3 × 0.25 mm ²	4 × 0.25 mm ²	8 × 0.25 mm ²
Approvals			
1 Type of drum			
Drum (500m)	05		
Drum (200-500m)	05		
2 Cable length			
100m	01		
200m	02		
300m	03		
400m	04		
500m	05		
3 Jacket color			
yellow	030	031	114
grey	230	231	292
black	630	631	722
Article no.	1	2	3
	7 0 0 0 - C	0 5	0 5
		-	0 1 0
			0 0 0 0
Technical Data			
Copper index	8 kg/km	11.9 kg/km	24.2 kg/km
Outer diameter	approx. 4.3 mm	approx. 4.7 mm	approx. 6.0 mm

Your article number

1
2
3
7 0 0 0 - C 0 5 0 5 - 0 1 0 0 0 0 0

| STANDARD CABLE TYPES

Murrelektronik has an extensive variety of cables for your application:

- **5 standardized cable types for your application solution** – you can definitely find the right cable!
- **3 cable colors (Yellow, Gray and Black)** – individually designed to meet your requirements
- **Meets the highest quality requirements** – certified, application approved and successfully tested with many aggressive media (oil and lubricants)



For ordinary environments

PVC

Applications

Suitable for medium mechanical demands like packaging machines, assembly and production lines.

Also ideal for limited-motion applications, which means they are suitable for open, non-recurring movements without tensile stress or mechanical feeds (not suitable for C-tracks).

Features

- outer jacket is easy to strip off
- high chemical resistance
- limited resistance to oil and lubricants
- cost-effective
- cable with UL approval



For rugged environments

PUR/PVC

Applications

Flexible control line for higher mechanical demands inside or outside; used in handling and packaging machines, assembly lines as well as production lines.

C-track data robot data

Bending radius for flexible applications: min. $10 \times \text{cable } \emptyset$

Movement speed: max. 3.3 m/s
(stroke length 5 m, acceleration 5 m/s^2)

Number of bending cycles: max. 2 M

Features

- outer jacket is easy to strip off
- high chemical resistance
- high resistance to temporary contact with oil and lubricants
- high resistance to abrasion
- UV resistant
- cable with UL approval



For demanding areas

Applications

Continually flexible control line for use in extremely demanding areas like machine tools, swivel tables and metal cutting. If the cable is installed properly, it is ideal for C-tracks.

C-track data robot data

Bending radius for flexible applications: min. $10 \times \text{cable } \emptyset$

Movement speed: max. 3.3 m/s
(stroke length 5 m, acceleration 5 m/s^2)

Number of bending cycles: max. 5 M

Torsion: $\pm 180^\circ/\text{m}$

PUR-UL/CSA

Features

- suitable for C-tracks, halogen-free, silicone- and PVC-free
- highly resistant to oil, lubricants, coolants, many chemicals as well as other aggressive media
- Flame retardant acc. to VDE 0472
- withstands high mechanical demands, high resistance to abrasion
- hydrolysis and UV-resistant
- cable with UL approval



For extreme applications

Applications

Continually flexible control line for extremely demanding areas like robotics, special welding robots, high-speed C-tracks, machine tools, assembly lines and metal cutting.

C-track data robot data

Bending radius for flexible applications: min. $10 \times \text{cable } \emptyset$

Movement speed: max. 3.3 m/s
(stroke length 5 m, acceleration 5 m/s^2)

Number of bending cycles: max. 10 M

Torsion: $\pm 360^\circ/\text{m}$

PUR
welding spark resistant

Features

All the PUR qualities listed above, including:

- high temperature resistance
- welding spark resistant
- suitable for robots
- cable with UL approval



North American Market

Applications

UL-listed approved flexible control cable for machine wiring according to NFPA 79 and for installation in cable racks according to NEC (NFPA70).

C-track data robot data

Bending radius for flexible applications: min. $10 \times \text{cable } \emptyset$

Movement speed: max. 3.3 m/s
(stroke length 5 m, acceleration 5 m/s^2)

Number of bending cycles: max. 2 M

Torsion: $\pm 180^\circ/\text{m}$

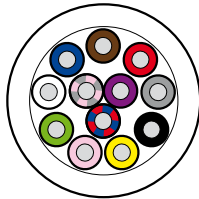
TPE

Features

- high flame resistance CSA FT4
- UL-listed approved cable
- meets requirement of NEPA79/NEC (NFPA70)
- highly flexible
- welding spark resistant

UNSHIELDED SENSOR/ACTUATOR CABLES – PVC

12 × 0.14 mm²



Approvals



1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Gray	209
Black	609

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	20.3 kg/km
Outer diameter	approx. 6.0 mm
Wire structure	0.14 mm ² (Class 5)
Wire insulation	PVC
Outer jacket	PVC
Resistance	high resistance to oil and chemicals silicone-free, cadmium-free, lead-free, CFC-free, flame retardant

Electrical data

Nominal voltage	300 V
Test voltage	2000 V

Temperature range

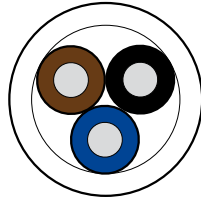
Fixed installation	-30 ... +80°C
Flexible installation	-5 ... +80°C

Bend radius

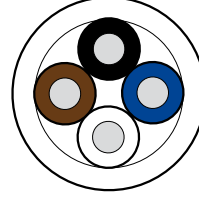
Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø

UNSHIELDED SENSOR/ACTUATOR CABLES – PVC

3 × 0.25 mm²



4 × 0.25 mm²



Approvals



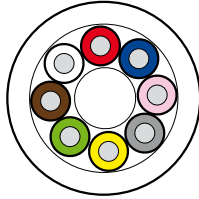
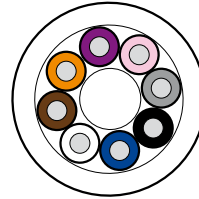
1 Type of drum	
Drum (100 m)	01
Drum (200–500 m)	05
2 Cable length	
100 m	01
200 m	02
300 m	03
400 m	04
500 m	05
3 Jacket color	
Yellow	010 011
Gray	210 211
Black	610 611

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data	
Copper index	9.1 kg/km 12.1 kg/km
Outer diameter	approx. 4.5 mm approx. 4.8 mm
Wire structure	0.25 mm ² (Class 5)
Wire insulation	PVC
Outer jacket	PVC
Resistance	high resistance to oil and chemicals silicone-free, cadmium-free, lead-free, flame retardant, CFC-free
Electrical data	
Nominal voltage	300 V
Test voltage	2000 V
Temperature range	
Fixed installation	-30 ... +80°C
Flexible installation	-5 ... +80°C
Bend radius	
Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø

UNSHIELDED SENSOR/ACTUATOR CABLES – PVC

8 × 0.25 mm²8 × 0.25 mm²

Approvals



1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Gray	207	208
Black	607	608

Article no.

1 2 3
7 0 0 0 - C _ _ _ _ - _ _ _ 0 0 0 0

Technical Data

Copper index	24.2 kg/km
Outer diameter	approx. 6.0 mm
Wire structure	0.25 mm ² (Class 5)
Wire insulation	PVC
Outer jacket	PVC
Resistance	limited resistance to oil and very high resistance to chemicals silicone-free, cadmium-free, lead-free, flame retardant, CFC-free

Electrical data

Nominal voltage	300 V
Test voltage	2000 V

Temperature range

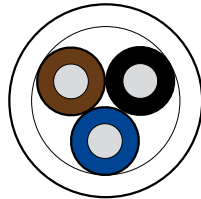
Fixed installation	-30 ... +80°C
Flexible installation	-5 ... +80°C

Bend radius

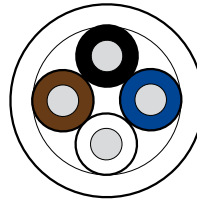
Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø

UNSHIELDED SENSOR/ACTUATOR CABLES – PVC

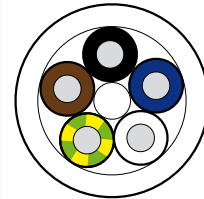
3 × 0.34 mm²



4 × 0.34 mm²



5 × 0.34 mm²



Approvals



1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Yellow	013	014	015
Gray	213	214	215
Black	613	614	615

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	12.0 kg/km	16.0 kg/km	20.0 kg/km
Outer diameter	approx. 4.6 mm	approx. 5.0 mm	approx. 5.2 mm
Wire structure	0.34 mm ² (Class 5)		
Wire insulation	PVC		
Outer jacket	PVC		
Resistance	limited resistance to oil and very high resistance to chemicals silicone-free, cadmium-free, lead-free, flame retardant, CFC-free		

Electrical data

Nominal voltage	300 V
Test voltage	2000 V

Temperature range

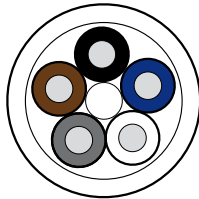
Fixed installation	-30 ... +80°C
Flexible installation	-5 ... +80°C

Bend radius

Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø

UNSHIELDED SENSOR/ACTUATOR CABLES – PVC

5 × 0.34 mm²



Approvals



1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Gray	219
Black	619

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	20.0 kg/km
Outer diameter	approx. 5.2 mm
Wire structure	0.34 mm ² (Class 5)
Wire insulation	PVC
Outer jacket	PVC
Resistance	limited resistance to oil and very high resistance to chemicals silicone-free, cadmium-free, lead-free, flame retardant, CFC-free

Electrical data

Nominal voltage	300 V
Test voltage	2000 V

Temperature range

Fixed installation	-30 ... +80°C
Flexible installation	-5 ... +80°C

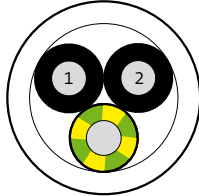
Bend radius

Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø

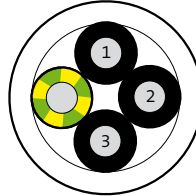
UNSHIELDED SENSOR/ACTUATOR CABLES – PVC

Approvals
CE

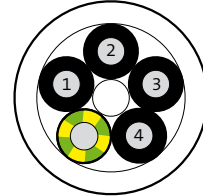
3 × 0.75 mm²



4 × 0.75 mm²



5 × 0.75 mm²



1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Yellow	016	017	018
Gray	216	217	218
Black	616	617	618

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	26.1 kg/km	35.1 kg/km	43.6 kg/km
Outer diameter	approx. 5.9 mm	approx. 6.5 mm	approx. 7.0 mm
Wire structure	0.75 mm ² (Class 5)		
Wire insulation	PVC		
Outer jacket	PVC		
Resistance	limited resistance to oil and very high resistance to chemicals silicone-free, cadmium-free, lead-free, CFC-free		

Electrical data

Nominal voltage	300 V
Test voltage	3000 V

Temperature range

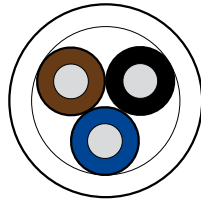
Fixed installation	-30 ... +70°C
Flexible installation	-5 ... +70°C

Bend radius

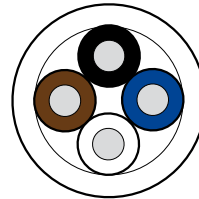
Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø

UNSHIELDED SENSOR/ACTUATOR CABLES – PUR/PVC

3 × 0.25 mm²



4 × 0.25 mm²



Approvals



1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Yellow	020	021
Gray	220	221
Black	620	621

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	9.1 kg/km	12.1 kg/km
Outer diameter	approx. 4.5 mm	approx. 4.8 mm
Wire structure	0.25 mm ² (Class 6)	
Wire insulation	PVC	
Outer jacket	PUR/PVC	
Resistance	limited resistance to oil and very high resistance to chemicals silicone-free, cadmium-free, lead-free, CFC-free resistant to microbes, hydrolysis and abrasion	

Electrical data

Nominal voltage	300 V
Test voltage	2000 V

Temperature range

Fixed installation	-30 ... +80°C
Flexible installation	-5 ... +80°C

Bend radius

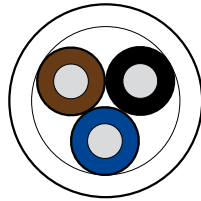
Fixed installation	10 × outer Ø
Flexible installation	15 × outer Ø

C-track data

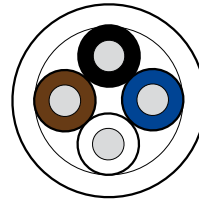
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 2 M

UNSHIELDED SENSOR/ACTUATOR CABLES – PUR/PVC

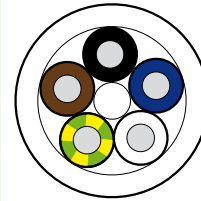
3 × 0.34 mm²



4 × 0.34 mm²



5 × 0.34 mm²



Approvals

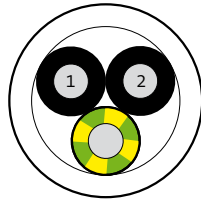


1	Type of drum			
	Drum (100 m)	01		
	Drum (200–500 m)	05		
2	Cable length			
	100 m	01		
	200 m	02		
	300 m	03		
	400 m	04		
	500 m	05		
3	Jacket color			
	Yellow	023	024	025
	Gray	223	224	225
	Black	623	624	625
Article no.		1	2	3
		7	0	0
		0	0	0
		-	C	
		---	---	---
			-	
				0
				0
				0
				0

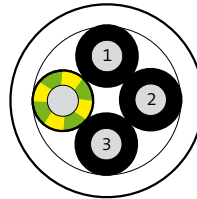
Technical Data			
Copper index	12.7 kg/km	16.9 kg/km	21.2 kg/km
Outer diameter	approx. 4.9 mm	approx. 5.2 mm	approx. 5.9 mm
Wire structure	0.34 mm ² (Class 6)		
Wire insulation	PVC		
Outer jacket	PUR/PVC		
Resistance	limited resistance to oil and very high resistance to chemicals silicone-free, cadmium-free, lead-free, CFC-free resistant to microbes, hydrolysis and abrasion		
Electrical data			
Nominal voltage	300 V		
Test voltage	2000 V		
Temperature range			
Fixed installation	-30 ... +80°C		
Flexible installation	-5 ... +80°C		
Bend radius			
Fixed installation	10 × outer Ø		
Flexible installation	15 × outer Ø		
C-track data			
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)		
Number of bending cycles	max. 2 M		

UNSHIELDED SENSOR/ACTUATOR CABLES – PUR/PVC

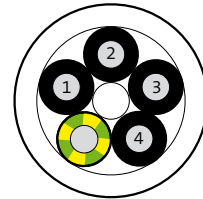
3 × 0.75 mm²



4 × 0.75 mm²



5 × 0.75 mm²



Approvals



1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Yellow	026	027	028
Gray	226	227	228
Black	626	627	628

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	26.7 kg/km	35.1 kg/km	43.6 kg/km
Outer diameter	approx. 5.9 mm	approx. 6.5 mm (cable 227: approx. 7.0 mm)	approx. 7.0 mm
Wire structure	0.75 mm ² (Class 6)		
Wire insulation	PVC		
Outer jacket	PUR/PVC		
Resistance	limited resistance to oil and very high resistance to chemicals silicone-free, cadmium-free, lead-free, CFC-free resistant to microbes, hydrolysis and abrasion		

Electrical data

Nominal voltage	300 V
Test voltage	2000 V

Temperature range

Fixed installation	-30 ... +80°C
Flexible installation	-5 ... +80°C

Bend radius

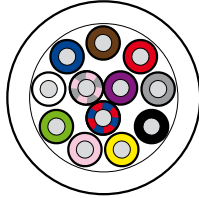
Fixed installation	10 × outer Ø
Flexible installation	15 × outer Ø

C-track data

Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 2 M

UNSHIELDED SENSOR/ACTUATOR CABLES – PUR

12 × 0.14 mm²



Approvals

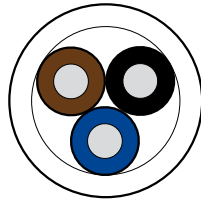


1 Type of drum	
Drum (100 m)	01
Drum (200–500 m)	05
2 Cable length	
100 m	01
200 m	02
300 m	03
400 m	04
500 m	05
3 Jacket color	
Black	705
Article no.	
	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> 1 </div> <div style="text-align: center;"> 2 </div> <div style="text-align: center;"> 3 </div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> </div>

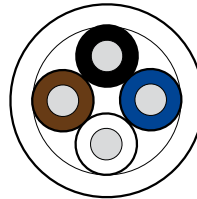
Technical Data	
Copper index	19.6 kg/km
Outer diameter	approx. 6.0 mm
Wire structure	0.14 mm ² (Class 6)
Wire insulation	TPM/PP
Outer jacket	PUR
Resistance	limited resistance to oil and very high resistance to chemicals cadmium-free, lead-free, CFC-free, halogen-free, flame retardant resistant to microbes, hydrolysis and abrasion
Electrical data	
Nominal voltage	300 V
Test voltage	1500 V
Temperature range	
Fixed installation	-40 ... +85°C
Flexible installation	-25 ... +85°C
Bend radius	
Fixed installation	7.5 × outer Ø
Flexible installation	10 × outer Ø
C-track data	
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 2 M
Robot data	
Torsion	± 180°/m

UNSHIELDED SENSOR/ACTUATOR CABLES – PUR

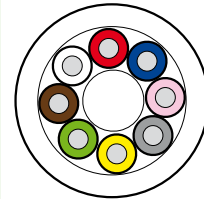
3 × 0.25 mm²



4 × 0.25 mm²



8 × 0.25 mm²



Approvals



1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Yellow	030	031	114
Gray	230	231	292
Black	630	631	722

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	8.9 kg/km	11.9 kg/km	24.2 kg/km
Outer diameter	approx. 4.3 mm	approx. 4.7 mm	approx. 6.0 mm
Wire structure	0.25 mm ² (Class 6)		
Wire insulation	PP		
Outer jacket	PUR		
Resistance	limited resistance to oil and very high resistance to chemicals silicone-free, cadmium-free, lead-free, flame retardant, CFC-free, halogen-free resistant to microbes, hydrolysis and abrasion		

Electrical data

Nominal voltage	300 V
Test voltage	2500 V

Temperature range

Fixed installation	-40 ... +80°C
Flexible installation	-25 ... +80°C

Bend radius

Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø

C-track data

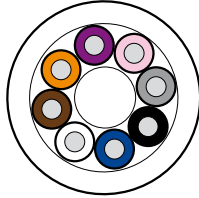
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 5 M

Robot data

Torsion	± 180°/m (max. 2 M cycles)
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UNSHIELDED SENSOR/ACTUATOR CABLES – PUR

8 × 0.25 mm²



Approvals

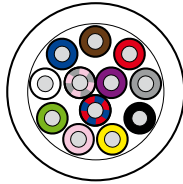


1 Type of drum	
Drum (100 m)	01
Drum (200–500 m)	05
2 Cable length	
100 m	01
200 m	02
300 m	03
400 m	04
500 m	05
3 Jacket color	
Gray	295
Article no.	
<div style="display: flex; justify-content: space-around; align-items: center;"> 7 0 0 0 - C _ _ _ - _ _ _ _ _ _ _ _ _ </div>	

Technical Data	
Copper index	23.2 kg/km
Outer diameter	approx. 6.0 mm
Wire structure	0.25 mm ² (Class 6)
Wire insulation	PP
Outer jacket	PUR
Resistance	limited resistance to oil and very high resistance to chemicals silicone-free, cadmium-free, lead-free, flame retardant, CFC-free, halogen-free resistant to microbes, hydrolysis and abrasion
Electrical data	
Nominal voltage	300 V
Test voltage	2500 V
Temperature range	
Fixed installation	-40 ... +80°C
Flexible installation	-25 ... +80°C
Bend radius	
Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø
C-track data	
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 5 M
Robot data	
Torsion	± 180°/m (max. 2 M cycles)

UNSHIELDED SENSOR/ACTUATOR CABLES – PUR

12 × 0.25 mm²



Approvals

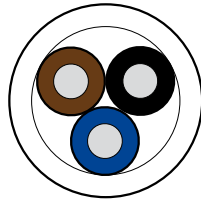


1	Type of drum	
	Drum (100 m)	01
	Drum (200–500 m)	05
2	Cable length	
	100 m	01
	200 m	02
	300 m	03
	400 m	04
	500 m	05
3	Jacket color	
	Gray	301
Article no.		
	7 0 0 0 - C	<div style="display: flex; align-items: center; gap: 10px;"> <div style="border: 1px solid black; padding: 2px 5px;">1</div> <div style="border: 1px solid black; padding: 2px 5px;">2</div> <div style="border: 1px solid black; padding: 2px 5px;">3</div> </div> <div style="display: flex; align-items: center; gap: 10px;"> <div style="border: 1px solid black; padding: 2px 5px;">_ _</div> <div style="border: 1px solid black; padding: 2px 5px;">_ _</div> <div style="border: 1px solid black; padding: 2px 5px;">_ _ _ _</div> <div style="border: 1px solid black; padding: 2px 5px;">0 0 0 0</div> </div>

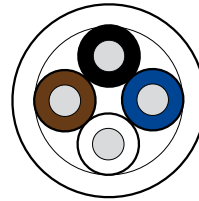
Technical Data	
Copper index	34.8 kg/km
Outer diameter	approx. 6.9 mm
Wire structure	0.25 mm ² (Class 6)
Wire insulation	PP
Outer jacket	PUR
Resistance	limited resistance to oil and very high resistance to chemicals silicone-free, cadmium-free, lead-free, flame retardant, CFC-free, halogen-free resistant to microbes, hydrolysis and abrasion
Electrical data	
Nominal voltage	300 V
Test voltage	1500 V
Temperature range	
Fixed installation	-40 ... +80°C
Flexible installation	-20 ... +80°C
Bend radius	
Fixed installation	10 × outer Ø
Flexible installation	15 × outer Ø
C-track data	
Movement speed	max. 2 m/s (stroke length 5 m, acceleration 10 m/s ²)
Number of bending cycles	max. 3 M

UNSHIELDED SENSOR/ACTUATOR CABLES – PUR

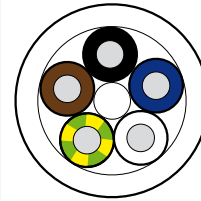
3 × 0.34 mm²



4 × 0.34 mm²



5 × 0.34 mm²



Approvals

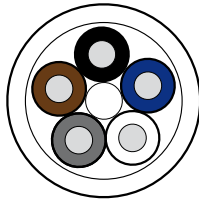


1 Type of drum				
Drum (100 m)	01			
Drum (200–500 m)	05			
2 Cable length				
100 m	01			
200 m	02			
300 m	03			
400 m	04			
500 m	05			
3 Jacket color				
Yellow	033	034	035	
Gray	233	234	235	
Black	633	634	635	
Article no.	<div style="display: flex; justify-content: space-around; align-items: center;"> 1 2 3 </div>			
	<u>7 0 0 0 - C</u> _ _ _ _ - _ _ _ _ <u>0 0 0 0</u>			

Technical Data			
Copper index	12.2 kg/km	16.3 kg/km	20.4 kg/km
Outer diameter	approx. 4.3 mm	approx. 4.7 mm	approx. 5.0 mm
Wire structure	0.34 mm ² (Class 6)		
Wire insulation	PP		
Outer jacket	PUR		
Resistance	limited resistance to oil and very high resistance to chemicals silicone-free, cadmium-free, lead-free, flame retardant, CFC-free, halogen-free resistant to microbes, hydrolysis and abrasion		
Electrical data			
Nominal voltage	300 V		
Test voltage	2500 V		
Temperature range			
Fixed installation	-40 ... +80°C		
Flexible installation	-25 ... +80°C		
Bend radius			
Fixed installation	5 × outer Ø		
Flexible installation	10 × outer Ø		
C-track data			
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)		
Number of bending cycles	max. 5 M		
Robot data			
Torsion	± 180°/m (max. 2 M cycles)		

UNSHIELDED SENSOR/ACTUATOR CABLES – PUR

5 × 0.34 mm²



Approvals



1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Yellow	126
Gray	354
Black	732

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	20.5 kg/km
Outer diameter	approx. 5.0 mm
Wire structure	0.34 mm ² (Class 6)
Wire insulation	PP
Outer jacket	PUR
Resistance	limited resistance to oil and very high resistance to chemicals silicone-free, cadmium-free, lead-free, CFC-free, halogen-free, flame retardant resistant to microbes, hydrolysis and abrasion

Electrical data

Nominal voltage	300 V
Test voltage	2500 V

Temperature range

Fixed installation	-40 ... +80°C
Flexible installation	-25 ... +80°C

Bend radius

Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø

C-track data

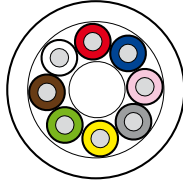
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 5 M

Robot data

Torsion	± 180°/m (max. 2 M cycles)
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UNSHIELDED SENSOR/ACTUATOR CABLES – PUR

8 × 0.34 mm²



Approvals



1 Type of drum	
Drum (100 m)	01
Drum (200–500 m)	05
2 Cable length	
100 m	01
200 m	02
300 m	03
400 m	04
500 m	05
3 Jacket color	
Gray	376
Article no.	
	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> 1 </div> <div style="text-align: center;"> 2 </div> <div style="text-align: center;"> 3 </div> </div> 7 0 0 0 - C -

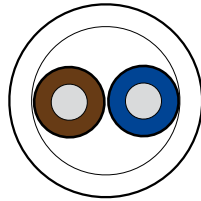
Technical Data	
Copper index	35.2 kg/km
Outer diameter	approx. 6.2 mm
Wire structure	0.34 mm ² (Class 6)
Wire insulation	PP
Outer jacket	PUR
Resistance	limited resistance to oil and very high resistance to chemicals silicone-free, cadmium-free, lead-free, flame retardant, CFC-free, halogen-free resistant to microbes, hydrolysis and abrasion
Electrical data	
Nominal voltage	300 V
Test voltage	2500 V
Temperature range	
Fixed installation	-40 ... +80°C
Flexible installation	-25 ... +80°C
Bend radius	
Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø
C-track data	
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 5 M
Robot data	
Torsion	± 180° / m (max. 2 M cycles)

UNSHIELDED SENSOR/ACTUATOR CABLES – PUR

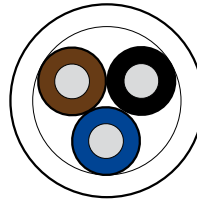
Approvals



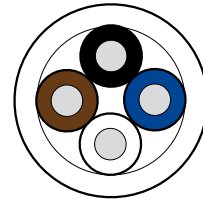
2 × 0.5 mm²



3 × 0.5 mm²



4 × 0.5 mm²



1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Gray	414	428	
Black			737

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	12.2 kg/km	17.4 kg/km	24.6 kg/km
Outer diameter	approx. 4.4 mm	approx. 4.6 mm	approx. 4.9 mm
Wire structure	0.5 mm ² (Class 6)	0.5 mm ² (Class 5)	0.5 mm ² (Class 6)
Wire insulation	PP		
Outer jacket	PUR		
Resistance	limited resistance to oil and very high resistance to chemicals silicone-free, cadmium-free, lead-free, flame retardant, CFC-free, halogen-free resistant to microbes, hydrolysis and abrasion		

Electrical data

Nominal voltage	300 V
Test voltage	2500 V

Temperature range

Fixed installation	-40 ... +80°C
Flexible installation	-25 ... +80°C

Bend radius

Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø

C-track data

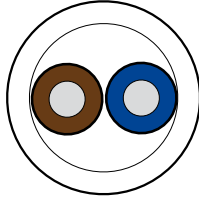
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 5 M

Robot data

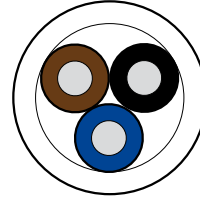
Torsion	± 180°/m (max. 2 M cycles)
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UNSHIELDED SENSOR/ACTUATOR CABLES – PUR

2 × 0.75 mm²



3 × 0.75 mm²



Approvals



1 Type of drum	
Drum (100 m)	01
Drum (200–500 m)	05
2 Cable length	
100 m	01
200 m	02
300 m	03
400 m	04
500 m	05
3 Jacket color	
Yellow	145
Black	754
	564
Article no.	
	7 0 0 0 - C 1 2 - 3 0 0 0 0

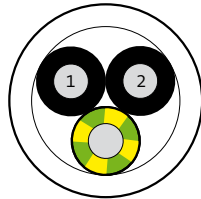
Technical Data	
Copper index	17.4 kg/km
Outer diameter	approx. 5.0 mm
Wire structure	0.75 mm ² (Class 6)
Wire insulation	PP
Outer jacket	PUR
Resistance	limited resistance to oil and very high resistance to chemicals silicone-free, cadmium-free, lead-free, CFC-free, halogen-free, flame retardant resistant to microbes, hydrolysis and abrasion
Electrical data	
Nominal voltage	300 V
Test voltage	2500 V
Temperature range	
Fixed installation	-40 ... +80°C
Flexible installation	-25 ... +80°C
Bend radius	
Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø
C-track data	
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 5 M
Robot data	
Torsion	± 180°/m (max. 2 M cycles)

UNSHIELDED SENSOR/ACTUATOR CABLES – PUR

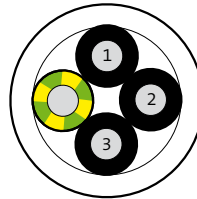
Approvals



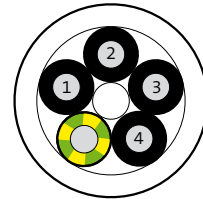
3 × 0.75 mm²



4 × 0.75 mm²



5 × 0.75 mm²



1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Yellow	036	037	038
Gray	236	237	238
Black	636	637	638

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	26.1 kg/km	34.8 kg/km	43.6 kg/km
Outer diameter	approx. 5.9 mm	approx. 6.5 mm	approx. 7.0 mm
Wire structure	0.75 mm ² (Class 6)		
Wire insulation	PP		
Outer jacket	PUR		
Resistance	limited resistance to oil and very high resistance to chemicals silicone-free, cadmium-free, lead-free, flame retardant, CFC-free, halogen-free resistant to microbes, hydrolysis and abrasion		

Electrical data

Nominal voltage	300 V
Test voltage	2500 V

Temperature range

Fixed installation	-40 ... +80°C
Flexible installation	-25 ... +80°C

Bend radius

Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø

C-track data

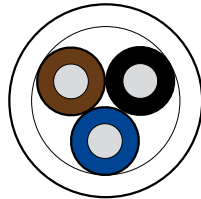
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 5 M

Robot data

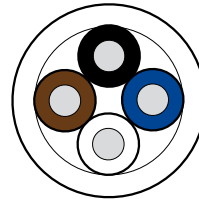
Torsion	± 180°/m (max. 2 M cycles)
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UNSHIELDED SENSOR/ACTUATOR CABLES – PUR WELDING SPARK RESISTANT

3 × 0.25 mm²



4 × 0.25 mm²



Approvals



1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Yellow	050	051
Gray	250	251
Black	650	651

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	9.1 kg/km	12.1 kg/km
Outer diameter	approx. 4.3 mm	approx. 4.7 mm
Wire structure	0.25 mm ² (Class 6)	
Wire insulation	PP	
Outer jacket	PUR welding spark resistant	
Resistance	limited resistance to oil and very high resistance to chemicals silicone-free, cadmium-free, lead-free, flame retardant, CFC-free, halogen-free resistant to welding sparks, microbes, hydrolysis and abrasion	

Electrical data

Nominal voltage	300 V
Test voltage	2500 V

Temperature range

Fixed installation	-40 ... +80°C
Flexible installation	-25 ... +80°C

Bend radius

Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø

C-track data

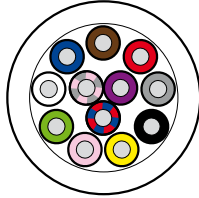
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 10 M

Robot data

Torsion	± 360°/m (max. 1 M cycles)
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UNSHIELDED SENSOR/ACTUATOR CABLES – PUR WELDING SPARK RESISTANT

12 × 0.25 mm²



Approvals

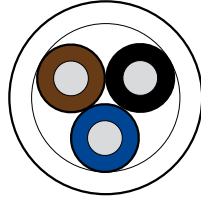


1 Type of drum	
Drum (100 m)	01
Drum (200–500 m)	05
2 Cable length	
100 m	01
200 m	02
300 m	03
400 m	04
500 m	05
3 Jacket color	
Gray	302
Article no.	
<div style="display: flex; justify-content: space-around; align-items: center;"> 7 0 0 0 - C <div style="display: flex; gap: 10px;"> <div style="text-align: center;"> 1 _ _ </div> <div style="text-align: center;"> 2 _ _ </div> <div style="text-align: center;"> 3 _ _ _ </div> </div> - 0 0 0 0 </div>	

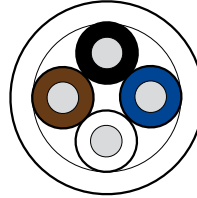
Technical Data	
Copper index	36.5 kg/km
Outer diameter	approx. 6.9 mm
Wire structure	0.25 mm ² (Class 6)
Wire insulation	PP
Outer jacket	PUR welding spark resistant
Resistance	limited resistance to oil and very high resistance to chemicals silicone-free, cadmium-free, lead-free, flame retardant, CFC-free, halogen-free resistant to welding sparks, microbes, hydrolysis and abrasion
Electrical data	
Nominal voltage	300 V
Test voltage	2500 V
Temperature range	
Fixed installation	-40 ... +80°C
Flexible installation	-25 ... +80°C
Bend radius	
Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø
C-track data	
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 5 M
Robot data	
Torsion	± 180°/m (max. 1 M cycles)

UNSHIELDED SENSOR/ACTUATOR CABLES – PUR WELDING SPARK RESISTANT

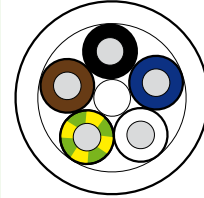
3 × 0.34 mm²



4 × 0.34 mm²



5 × 0.34 mm²



Approvals



1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Yellow	053	054	055
Gray	253	254	255
Black	653	654	655

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	12.2 kg/km	16.3 kg/km	20.4 kg/km
Outer diameter	approx. 4.3 mm	approx. 4.7 mm	approx. 5.0 mm
Wire structure	0.34 mm ² (Class 6)		
Wire insulation	PP		
Outer jacket	PUR welding spark resistant		
Resistance	limited resistance to oil and very high resistance to chemicals silicone-free, cadmium-free, lead-free, flame retardant, CFC-free, halogen-free resistant to welding sparks, microbes, hydrolysis and abrasion		

Electrical data

Nominal voltage	300 V
Test voltage	2500 V

Temperature range

Fixed installation	-40 ... +80°C
Flexible installation	-25 ... +80°C

Bend radius

Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø

C-track data

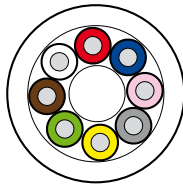
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 10 M

Robot data

Torsion	± 360°/m (max. 1 M cycles)
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UNSHIELDED SENSOR/ACTUATOR CABLES – PUR WELDING SPARK RESISTANT

8 × 0.34 mm²



Approvals

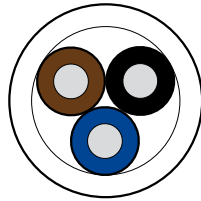


1	Type of drum	
	Drum (100 m)	01
	Drum (200–500 m)	05
2	Cable length	
	100 m	01
	200 m	02
	300 m	03
	400 m	04
	500 m	05
3	Jacket color	
	Gray	377
Article no.		
		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> 1 _ _ </div> <div style="text-align: center;"> 2 _ _ </div> <div style="text-align: center;"> 3 _ _ _ </div> </div> 7 0 0 0 - C _ _ - _ _ _ 0 0 0 0

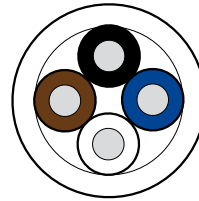
Technical Data	
Copper index	32.8 kg/km
Outer diameter	approx. 6.2 mm
Wire structure	0.34 mm ² (Class 6)
Wire insulation	PP
Outer jacket	PUR welding spark resistant
Resistance	limited resistance to oil and very high resistance to chemicals silicone-free, cadmium-free, lead-free, flame retardant, CFC-free, halogen-free resistant to welding sparks, microbes, hydrolysis and abrasion
Electrical data	
Nominal voltage	300 V
Test voltage	2500 V
Temperature range	
Fixed installation	-40 ... +80°C
Flexible installation	-25 ... +80°C
Bend radius	
Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø
C-track data	
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 5 M
Robot data	
Torsion	± 180° /m (max. 1 M cycles)

UNSHIELDED SENSOR/ACTUATOR CABLES – PUR WELDING SPARK RESISTANT

3 × 0.34 mm²



4 × 0.34 mm²



Approvals

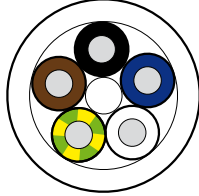


1	Type of drum	
	Drum (100 m)	01
	Drum (200–500 m)	05
2	Cable length	
	100 m	01
	200 m	02
	300 m	03
	400 m	04
	500 m	05
3	Jacket color	
	orange	845
		846
Article no.		
		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> 1 7 0 0 0 - C </div> <div style="text-align: center;"> 2 _ _ </div> <div style="text-align: center;"> 3 _ _ _ </div> <div style="text-align: center;"> 0 0 0 0 </div> </div>

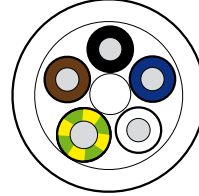
Technical Data	
Copper index	12.2 kg/km
Outer diameter	approx. 4.3 mm
Wire structure	0.34 mm ² (Class 6)
Wire insulation	PP
Outer jacket	PUR welding spark resistant
Resistance	limited resistance to oil and very high resistance to chemicals silicone-free, cadmium-free, lead-free, flame retardant, CFC-free, halogen-free resistant to welding sparks, microbes, hydrolysis and abrasion
Electrical data	
Nominal voltage	300 V
Test voltage	2500 V
Temperature range	
Fixed installation	-40 ... +80°C
Flexible installation	-25 ... +80°C
Bend radius	
Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø
C-track data	
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 10 M
Robot data	
Torsion	± 360°/m (max. 1 M cycles)

UNSHIELDED SENSOR/ACTUATOR CABLES – PUR WELDING SPARK RESISTANT

5 × 0.34 mm²



4 × 0.34 mm² + 1 × 0.5 mm²



Approvals

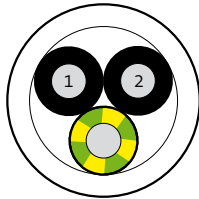


1 Type of drum	
Drum (100 m)	01
Drum (200–500 m)	05
2 Cable length	
100 m	01
200 m	02
300 m	03
400 m	04
500 m	05
3 Jacket color	
orange	847
	852
Article no.	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> 1 7 0 0 0 - C </div> <div style="text-align: center;"> 2 _ _ </div> <div style="text-align: center;"> 3 _ _ _ </div> <div style="text-align: center;"> 0 0 0 0 </div> </div>

Technical Data	
Copper index	20.4 kg/km
Outer diameter	approx. 5.0 mm
Wire structure	0.34 mm ² (Class 6)
Wire insulation	PP
Outer jacket	PUR welding spark resistant
Resistance	limited resistance to oil and very high resistance to chemicals silicone-free, cadmium-free, lead-free, flame retardant, CFC-free, halogen-free resistant to welding sparks, microbes, hydrolysis and abrasion
Electrical data	
Nominal voltage	300 V
Test voltage	2500 V
Temperature range	
Fixed installation	-40 ... +80°C
Flexible installation	-25 ... +80°C
Bend radius	
Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø
C-track data	
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 10 M
Robot data	
Torsion	± 360°/m (max. 1 M cycles)

UNSHIELDED SENSOR/ACTUATOR CABLES – PUR WELDING SPARK RESISTANT

3 × 0.75 mm²



Approvals

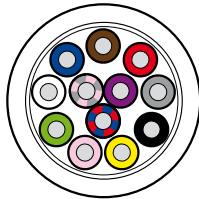


1	Type of drum	
	Drum (100 m)	01
	Drum (200–500 m)	05
2	Cable length	
	100 m	01
	200 m	02
	300 m	03
	400 m	04
	500 m	05
3	Jacket color	
	Yellow	056
	Gray	256
	Black	656
Article no.		
		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> 1 _ _ </div> <div style="text-align: center;"> 2 _ _ </div> <div style="text-align: center;"> 3 _ _ _ </div> </div> 7 0 0 0 - C _ _ - _ _ _ 0 0 0 0

Technical Data	
Copper index	26.1 kg/km
Outer diameter	approx. 5.2 mm
Wire structure	0.75 mm ² (Class 6)
Wire insulation	PP
Outer jacket	PUR welding spark resistant
Resistance	limited resistance to oil and very high resistance to chemicals silicone-free, cadmium-free, lead-free, flame retardant, CFC-free, halogen-free resistant to welding sparks, microbes, hydrolysis and abrasion
Electrical data	
Nominal voltage	300 V
Test voltage	2500 V
Temperature range	
Fixed installation	-40 ... +80°C
Flexible installation	-25 ... +80°C
Bend radius	
Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø
C-track data	
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 10 M
Robot data	
Torsion	± 360° /m (max. 1 M cycles)

SHIELDED SENSOR/ACTUATOR CABLES – PVC

12 × 0.14 mm²



Approvals



1 Type of drum	
Drum (100 m)	02
Drum (200–500 m)	05
2 Cable length	
100 m	01
200 m	02
300 m	03
400 m	04
500 m	05
3 Jacket color	
Black	703

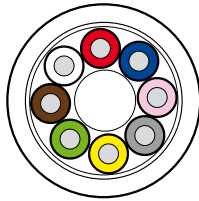
Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

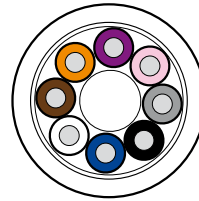
Technical Data	
Copper index	36.3 kg/km
Outer diameter	approx. 6.5 mm
Wire structure	0.14 mm ² (Class 5)
Wire insulation	PVC
Shielding	polyester foil, screen tinned copper wire braid (approx. 80 % covering), polyester fleece
Outer jacket	PVC
Resistance	limited resistance to oil and very high resistance to chemicals CFC-free, silicone-free, cadmium-free, lead-free, flame retardant
Electrical data	
Nominal voltage	300 V
Test voltage	2000 V
Temperature range	
Fixed installation	-30 ... +80°C
Flexible installation	-5 ... +80°C
Bend radius	
Fixed installation	10 × outer Ø

SHIELDED SENSOR/ACTUATOR CABLES – PVC

8 × 0.25 mm²



8 × 0.25 mm²



Approvals

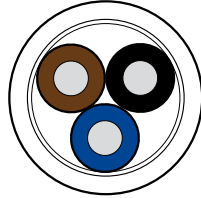


1 Type of drum	
Drum (100 m)	02
Drum (200–500 m)	05
2 Cable length	
100 m	01
200 m	02
300 m	03
400 m	04
500 m	05
3 Jacket color	
Gray	204
	205
Article no.	
	7 0 0 0 - C <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

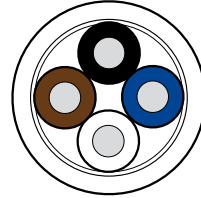
Technical Data	
Copper index	38.1 kg/km
Outer diameter	approx. 7.0 mm
Wire structure	0.25 mm ² (Class 5)
Wire insulation	PVC
Shielding	polyester foil, screen tinned copper wire braid (approx. 80 % covering), polyester fleece
Outer jacket	PVC
Resistance	limited resistance to oil and very high resistance to chemicals CFC-free, silicone-free, cadmium-free, lead-free, flame retardant
Electrical data	
Nominal voltage	300 V
Test voltage	2000 V
Temperature range	
Fixed installation	-30 ... +80°C
Flexible installation	-5 ... +80°C
Bend radius	
Fixed installation	10 × outer Ø

SHIELDED SENSOR/ACTUATOR CABLES – PVC

3 × 0.34 mm²



4 × 0.34 mm²



Approvals



1 Type of drum

Drum (100 m)	02
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Gray	200	201
Black	600	601

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	28.1 kg/km	32.5 kg/km
Outer diameter	approx. 5.0 mm	approx. 5.3 mm
Wire structure	0.34 mm ² (Class 5)	
Wire insulation	PVC	
Shielding	polyester foil, screen tinned copper wire braid (approx. 80 % covering), polyester fleece	
Outer jacket	PVC	
Resistance	limited resistance to oil and very high resistance to chemicals CFC-free, silicone-free, cadmium-free, lead-free, flame retardant	

Electrical data

Nominal voltage	300 V
Test voltage	2000 V

Temperature range

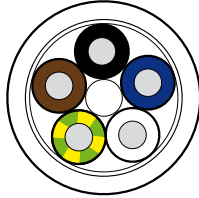
Fixed installation	-30 ... +80°C
Flexible installation	-5 ... +80°C

Bend radius

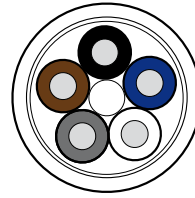
Fixed installation	10 × outer Ø
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SHIELDED SENSOR/ACTUATOR CABLES – PVC

5 × 0.34 mm²



5 × 0.34 mm²



Approvals



1	Type of drum		
	Drum (100 m)	02	
	Drum (200–500 m)	05	
2	Cable length		
	100 m	01	
	200 m	02	
	300 m	03	
	400 m	04	
	500 m	05	
3	Jacket color		
	Gray	202	203
	Black	602	603

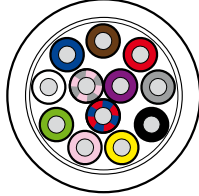
Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data	
Copper index	38.2 kg/km
Outer diameter	approx. 5.6 mm
Wire structure	0.34 mm ² (Class 5)
Wire insulation	PVC
Shielding	polyester foil, screen tinned copper wire braid (approx. 80 % covering), polyester fleece
Outer jacket	PVC
Resistance	limited resistance to oil and very high resistance to chemicals CFC-free, silicone-free, cadmium-free, lead-free, flame retardant
Electrical data	
Nominal voltage	300 V
Test voltage	2000 V
Temperature range	
Fixed installation	-30 ... +80°C
Flexible installation	-5 ... +80°C
Bend radius	
Fixed installation	10 × outer Ø

SHIELDED SENSOR/ACTUATOR CABLES – PUR

12 × 0.14 mm²



Approvals



1 Type of drum	
Drum (100 m)	02
Drum (200–500 m)	05
2 Cable length	
100 m	01
200 m	02
300 m	03
400 m	04
500 m	05
3 Jacket color	
Black	706

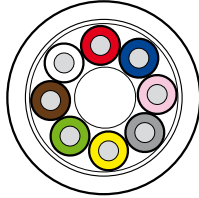
Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

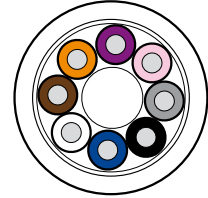
Technical Data	
Copper index	38.7 kg/km
Outer diameter	approx. 6.5 mm
Wire structure	0.14 mm ² (Class 6)
Wire insulation	PP
Shielding	polyester foil, screen tinned copper wire braid (approx. 80 % covering), polyester fleece
Outer jacket	PUR
Resistance	high resistance to oil and very high resistance to chemicals CFC-free, silicone-free, cadmium-free, lead-free, limited flame retardant, halogen-free resistant to microbes, hydrolysis and abrasion
Electrical data	
Nominal voltage	300 V
Test voltage	2000 V
Temperature range	
Fixed installation	-40 ... +80°C
Flexible installation	-25 ... +80°C
Bend radius	
Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø
C-track data	
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 5 M
Robot data	
Torsion	± 30°/m (max. 2 M cycles)

SHIELDED SENSOR/ACTUATOR CABLES – PUR

8 × 0.25 mm²



8 × 0.25 mm²



Approvals

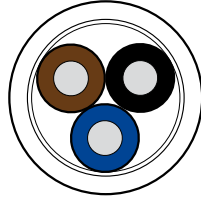


1 Type of drum			
Drum (100 m)	02		
Drum (200–500 m)	05		
2 Cable length			
100 m	01		
200 m	02		
300 m	03		
400 m	04		
500 m	05		
3 Jacket color			
Gray	291	294	
Black		717	
		715	
Article no.	1	2	3
	<u>7 0 0 0 - C</u>	<u> </u>	<u> </u>
		<u> </u>	<u> </u>
		<u> </u>	<u>0 0 0 0</u>

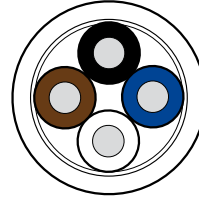
Technical Data	
Copper index	43.6 kg/km 39.1 kg/km
Outer diameter	approx. 7.0 mm
Wire structure	0.25 mm ² (Class 6)
Wire insulation	PP
Shielding	polyester foil, screen tinned copper wire braid (approx. 80 % covering), polyester fleece
Outer jacket	PUR
Resistance	high resistance to oil and very high resistance to chemicals CFC-free, silicone-free, cadmium-free, lead-free, flame retardant, halogen-free resistant to microbes, hydrolysis and abrasion
Electrical data	
Nominal voltage	300 V
Test voltage	2000 V
Temperature range	
Fixed installation	-40 ... +80°C
Flexible installation	-25 ... +80°C
Bend radius	
Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø
C-track data	
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 5 M
Robot data	
Torsion	± 30°/m (max. 2 M cycles)

SHIELDED SENSOR/ACTUATOR CABLES – PUR

3 × 0.34 mm²



4 × 0.34 mm²



Approvals



1 Type of drum

Drum (100 m)	02
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Gray	240	241
Black	640	641

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	21.9 kg/km	28.4 kg/km
Outer diameter	approx. 5.0 mm	approx. 5.3 mm
Wire structure	0.34 mm ² (Class 6)	
Wire insulation	PP	
Shielding	polyester foil, screen tinned copper wire braid (approx. 80 % covering), polyester fleece	
Outer jacket	PUR	
Resistance	high resistance to oil and very high resistance to chemicals CFC-free, silicone-free, cadmium-free, lead-free, flame retardant, halogen-free resistant to microbes, hydrolysis and abrasion	

Electrical data

Nominal voltage	300 V
Test voltage	2000 V

Temperature range

Fixed installation	-40 ... +80°C
Flexible installation	-25 ... +80°C

Bend radius

Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø

C-track data

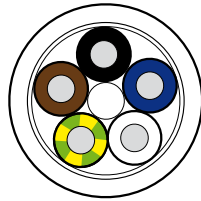
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 5 M

Robot data

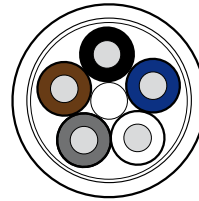
Torsion	± 30°/m (max. 2 M cycles)
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SHIELDED SENSOR/ACTUATOR CABLES – PUR

5 × 0.34 mm²



5 × 0.34 mm²



Approvals



1 Type of drum	
Drum (100 m)	02
Drum (200–500 m)	05
2 Cable length	
100 m	01
200 m	02
300 m	03
400 m	04
500 m	05
3 Jacket color	
Gray	242 243
Black	642 643
Article no.	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> 1 7 0 0 0 - C </div> <div style="text-align: center;"> 2 _ _ </div> <div style="text-align: center;"> 3 _ _ _ _ </div> <div style="text-align: center;"> 0 0 0 0 </div> </div>

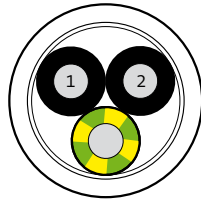
Technical Data	
Copper index	32.5 kg/km
Outer diameter	approx. 5.6 mm
Wire structure	0.34 mm ² (Class 6)
Wire insulation	PP
Shielding	polyester foil, screen tinned copper wire braid (approx. 80 % covering), polyester fleece
Outer jacket	PUR
Resistance	high resistance to oil and very high resistance to chemicals CFC-free, silicone-free, cadmium-free, lead-free, flame retardant, halogen-free resistant to microbes, hydrolysis and abrasion
Electrical data	
Nominal voltage	300 V
Test voltage	2000 V
Temperature range	
Fixed installation	-40 ... +80°C
Flexible installation	-25 ... +80°C
Bend radius	
Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø
C-track data	
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 5 M
Robot data	
Torsion	± 30°/m (max. 2 M cycles)

SHIELDED SENSOR/ACTUATOR CABLES – PUR

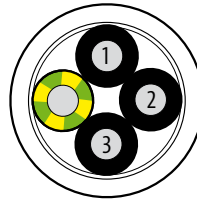
Approvals



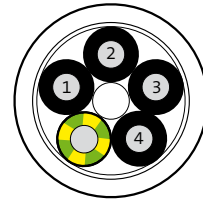
3 × 0.75 mm²



4 × 0.75 mm²



5 × 0.75 mm²



1 Type of drum

Drum (100 m)	02
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Gray	492	508	518
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Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	62.9 kg/km	56.9 kg/km	85.9 kg/km
Outer diameter	approx. 6.1 mm	approx. 6.5 mm	approx. 7.4 mm
Wire structure	0.75 mm ² (Class 5)		
Wire insulation	PVC		
Shielding	polyester foil, screen tinned copper wire braid (approx. 85 % covering), polyester fleece		
Outer jacket	PUR		
Resistance	high resistance to oil and very high resistance to chemicals		
	CFC-free, cadmium-free		
	lead-free, silicone-free, halogen-free		
	resistant to microbes, hydrolysis and abrasion	-	resistant to microbes, hydrolysis and abrasion

Electrical data

Nominal voltage	300 V		
Test voltage	3000 V		

Temperature range

Fixed installation	-40 ... +80°C		
Flexible installation	-5 ... +80°C		

Bend radius

Fixed installation	10 × outer Ø		
Flexible installation	15 × outer Ø	-	15 × outer Ø

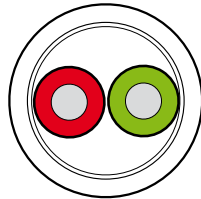
| NOTES

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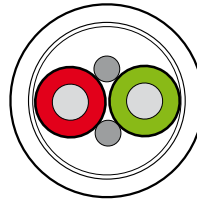
SHIELDED FIELDBUS CABLES – PUR

PROFIBUS

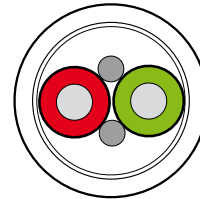
1 × 2 × 0.25 mm²



1 × 2 × 0.25 mm²



1 × 2 × 0.25 mm²



Approvals



1 Type of drum

Drum (100 m)	02
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Violet	840	841	843
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Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	27.8 kg/km	26.6 kg/km	32.7 kg/km
Outer diameter	approx. 7.8 mm	approx. 7.7 mm	approx. 8.0 mm
Wire structure	0.25 mm ² (Class 5)		
Wire insulation	PE		
Shielding	polyester fleece, screen tinned copper wire braid, aluminum foil		
Outer jacket	PUR		
Resistance	halogen-free, labs-free, flame retardant, CFC-free, silicone-free, heat-resistant		flame retardant, heat-resistant, halogen-free
	oil resistance in compliance with IEC 60811-2-1, ICEA S-82-552 and ASTM-Oil 1 Standard requirements		
	mud resistance in compliance with NEK 606 Standard requirement; ozone resistance in compliance with VDE 0472 §1 Standard requirements		
	microbe resistance in compliance with VDE 282/10 Standard requirements		
	UV-resistant acc. to UL 1581 §1200 Standard Reqs.	-	

Electrical data

Nominal voltage	250 V	300 V
Test voltage	1500 V	

Temperature range

Fixed installation	-40 ... +80°C	
Flexible installation	-20 ... +60°C	-20°C ... +50°C

Bend radius

Fixed installation	10 × outer Ø	7.5 × outer Ø	8 × outer Ø
Flexible installation	12 × outer Ø		

C-track data

Movement speed	max. 3.0 m/s (stroke length 5 m, acceleration 5 m/s ²)	-
Number of bending cycles	max. 5 M	-
Robot data		
Torsion	-	± 360° / m (max. 1 M cycles)

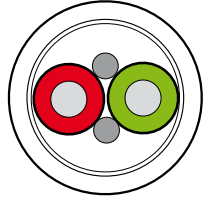
Transmission characteristics

Characteristic impedance	150 ± 10 Ohm bei 20 MHz	150 ± 10 Ohm bei 1 MHz	150 ± 10 Ohm bei 1–20 MHz
Conductor resistance	max. 78 Ohm/km	max. 72.2 Ohm/km	max. 66.5 Ohm/km
Insulation resistance	min. 5 GOhm × km		

SHIELDED FIELDBUS CABLES – PVC

PROFIBUS

1 × 2 × 0.25 mm²



Approvals



1 Type of drum

Drum (100 m)	02
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Violet	850
--------	-----

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	24.0 kg/km
Outer diameter	approx. 7.8 mm
Wire structure	0.25 mm ² (Class 6)
Wire insulation	PE
Shielding	aluminum foil, screen tinned copper wire braid (approx. 70% covering), polyester fleece
Outer jacket	PVC
Resistance	flame retardant

Electrical data

Nominal voltage	30 V
Test voltage	1500 V

Temperature range

Fixed installation	-20 ... +70°C
Flexible installation	-20 ... +60°C

Bend radius

Fixed installation	7.5 × outer Ø
Flexible installation	12 × outer Ø

C-track data

Movement speed	max. 3.0 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 2 M

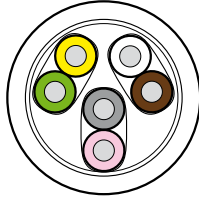
Transmission characteristics

Characteristic impedance	150 ± 15 Ohm bei 3–20 MHz
Conductor resistance	max. 68 Ohm/km
Insulation resistance	min. 1 GOhm × km

SHIELDED FIELDBUS CABLES – PUR

PROFIBUS

3 × 2 × 0.25 mm²



Approvals



1 Type of drum

Drum (100 m)	02
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Violet	799
--------	-----

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	41.1 kg/km
Outer diameter	approx. 7.7 mm
Wire structure	0.25 mm ² (Class 6)
Wire insulation	PE
Shielding	polyester fleece, screen tinned copper wire braid (approx. 85% covering), polyester fleece
Outer jacket	PUR
Resistance	halogen-free, cadmium-free, silicone-free und CFC-free, flame retardant very good oil resistance according to VDE 0472 Part 1 and VDE 0249

Electrical data

Nominal voltage	250 V
Test voltage	1500 V

Temperature range

Fixed installation	-40 ... +70°C
Flexible installation	-30 ... +60°C

Bend radius

Fixed installation	10 × outer Ø
Flexible installation	15 × outer Ø

C-track data

Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 2 M

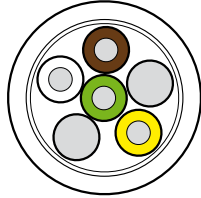
Transmission characteristics

Conductor resistance	max. 96 Ohm/km
Insulation resistance	-

SHIELDED FIELDBUS CABLES – PUR

CANopen

2 × 2 × 0.25 mm²



Approvals



1 Type of drum

Drum (100 m)	02
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Violet	801
--------	-----

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	35.1 kg/km
Outer diameter	approx. 6.8 mm
Wire structure	0.25 mm ² (Class 6)
Wire insulation	PP
Shielding	polyester fleece, screen tinned copper wire braid (approx. 85% covering), polyester fleece
Outer jacket	PUR
Resistance	halogen-free, cadmium-free, silikon- und CFC-free
	very good oil resistance according to VDE 0250 Part 1 Part 407
	good resistance to acids, bases and solvents

Electrical data

Nominal voltage	350 V
Test voltage	1500 V

Temperature range

Fixed installation	-40 ... +80°C
Flexible installation	-20 ... +80°C

Bend radius

Fixed installation	7.5 × outer Ø
Flexible installation	12 × outer Ø

C-track data

Movement speed	–
Number of bending cycles	–

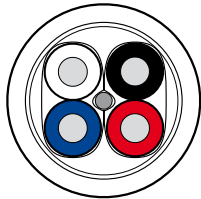
Transmission characteristics

Data rate	Category 5
Characteristic impedance	120 ± 15 Ohm 1 MHz
Conductor resistance	max. 76 Ohm/km
Insulation resistance	min. 5 GOhm × km

SHIELDED FIELDBUS CABLES – PUR

CANopen/DeviceNet

$2 \times 0.25 \text{ mm}^2 + 2 \times 0.34 \text{ mm}^2$



Approvals



1 Type of drum

Drum (100 m)	02
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Violet	803
Green	809
Blue	834
Black	838

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	39.9 kg/km
Outer diameter	approx. 6.9 mm
Wire structure	$2 \times 0.25 \text{ mm}^2 + 2 \times 0.34 \text{ mm}^2$
Wire insulation	PE
Shielding	polyester foil, screen tinned copper wire braid (approx. 65 % covering), aluminum foil
Outer jacket	PUR
Resistance	halogen-free, labs-free, flame retardant, CFC-free, silicone-free
	mud resistance in compliance with NEK 606 Standard requirement
	ozone resistance in compliance with VDE 0472 §1 Standard requirements
	microbe resistance in compliance with VDE 282/10 Standard requirements
	UV resistance in compliance with UL 1581 §1200 Standard requirements

Electrical data

Nominal voltage	300 V
-----------------	-------

Temperature range

Fixed installation	-40 ... +80°C
Flexible installation	-20 ... +60°C

Bend radius

Fixed installation	8 × outer Ø
Flexible installation	12 × outer Ø

C-track data

Movement speed	max. 3.0 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	-

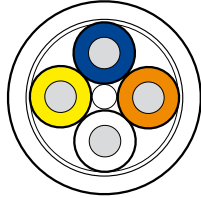
Transmission characteristics

Characteristic impedance	120 ± 10 Ohm 1 MHz
Conductor resistance	max. 78 Ohm/km
Insulation resistance	min. 5 GOhm × km

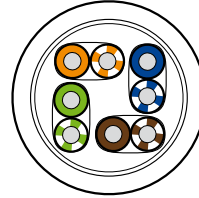
SHIELDED FIELDBUS CABLES – PUR

PROFINET

1 × 4 × 0.14 mm²



4 × 2 × 0.14 mm²



Approvals



1 Type of drum

Drum (100 m)	02
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Green	791	790
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Article no.

1 2 3
7 0 0 0 - C _ _ _ _ - _ _ _ _ 0 0 0 0

Technical Data

Copper index	19.4 kg/km	30.3 kg/km
Outer diameter	approx. 4.9 mm	approx. 6.4 mm
Wire structure	19 strands, 1 × 4 × AWG 26/19 (1 × 4 × 0.14 mm ²)	7 strands, 4 × 2 × AWG 26/7 (4 × 2 × 0.14 mm ²)
Wire insulation	PE	
Shielding	polyester fleece, aluminum foil, screen tinned copper wire braid (approx. 85 % covering), polyester fleece	
Outer jacket	PUR	
Resistance	halogen-free, flame retardant, CFC-free, silicone-free high resistance to oil, fuel and chemicals	halogen-free, labs-free, flame retardant, CFC-free, silicone-free oil resistance in compliance with IEC 60811-2-1, ICEA S-82-552, ASTM-Oil 1 Standard requirements UV resistance in compliance with UL 1581 §1200 Standard requirements mud resistance in compliance with NEK 606 Standard requirement ozone resistance in compliance with VDE 0472 §1 Standard requirements microbe resistance in compliance with VDE 282/10 Standard requirements

Electrical data

Nominal voltage	60 V
Test voltage	1000 V

Temperature range

Fixed installation	-20 ... +80°C	-30 ... +80°C
Flexible installation	-20 ... +50°C	

Bend radius

Fixed installation	7.5 × outer Ø	8 × outer Ø
Flexible installation	12 × outer Ø	

C-track data

Movement speed	max. 5 m/s (stroke length 5 m, acceleration 5 m/s ²)	–
Number of bending cycles	max. 5 M	–

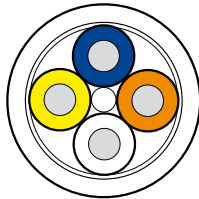
Transmission characteristics

Data rate	Category 7	
Characteristic impedance	100 ± 15 Ohm 1–100 MHz	100 ± 15 Ohm 1–250 MHz
Conductor resistance	max. 140 Ohm/km	max. 143 Ohm/km
Insulation resistance	max. 5 GOhm × km	max. 5 GOhm × km

SHIELDED FIELDBUS CABLES – PUR

Industrial Ethernet

2 × 2 × 0.25mm²



Approvals



1 Type of drum

Drum (100 m)	02
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Green	585
-------	-----

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	36.3 kg/km
Outer diameter	approx. 6.0 mm
Wire structure	2 × 2 × AWG24/7 (2 × 2 × 0.25 mm ²)
Wire insulation	PE
Shielding	polyester fleece, screen tinned copper wire braid (max. 85 % covering), polyester fleece
Outer jacket	PUR
Resistance	halogen-free, flame retardant, high resistance to oil and fuel
	mud resistance in compliance with NEK 606 Standard requirement; ozone resistance in compliance with VDE 0472 §1 Standard requirements
	microbe resistance in compliance with VDE 282/10 Standard requirements; UV resistance in compliance with UL 1581 §1200 Standard requirements

Electrical data

Nominal voltage	60 V
Test voltage	300 V

Temperature range

Fixed installation	-40 ... +80°C
Flexible installation	-30 ... +70°C

Bend radius

Fixed installation	5 × outer Ø
Flexible installation	12 × outer Ø

C-track data

Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 2 m/s ²)
Number of bending cycles	max. 2 M

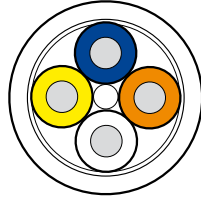
Transmission characteristics

Data rate	Category 5
Characteristic impedance	100 ± 15 Ohm 1–100 MHz
Conductor resistance	max. 87 Ohm/km
Insulation resistance	min. 5 GOhm × km

SHIELDED FIELDBUS CABLES – PUR

Industrial Ethernet

2 × 2 × 0.34 mm²



Approvals



1 Type of drum

Drum (100 m)	02
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Yellow	675
Blue	677
Green	796
Violet	798

Article no.

1 2 3
7 0 0 0 - C _ _ _ _ - _ _ _ _ 0 0 0 0

Technical Data

Copper index	37.9 kg/km
Outer diameter	approx. 6.7 mm
Wire structure	7 strands, 2 × 2 × AWG 22/7 (2 × 2 × 0.34 mm ²)
Wire insulation	PE
Shielding	polyester fleece, aluminum foil, screen tinned copper wire braid (approx. 85 % covering), polyester fleece
Outer jacket	PUR
Resistance	halogen-free, labs-free, flame retardant, CFC-free, silicone-free
	oil resistance in compliance with IEC 60811-2-1, ICEA S-82-552 and ASTM-Oil 1 Standard requirements
	UV resistance in compliance with UL 1581 §1200 Standard requirements, mud resistance in compliance with NEK 606 Standard requirement
	ozone resistance in compliance with VDE 0472 §1 Standard requirements, microbe resistance in compliance with VDE 282/10 Standard requirements

Electrical data

Nominal voltage	60 V
Test voltage	1000 V

Temperature range

Fixed installation	-40 ... +80°C
Flexible installation	-30 ... +70°C

Bend radius

Fixed installation	5 × outer Ø
Flexible installation	12 × outer Ø

C-track data

Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 2 m/s ²)
Number of bending cycles	max. 3 M

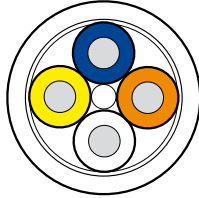
Transmission characteristics

Data rate	Category 5
Characteristic impedance	100 ± 15 Ohm 1–100 MHz
Conductor resistance	max. 55 Ohm/km
Insulation resistance	max. 5 GOhm × km

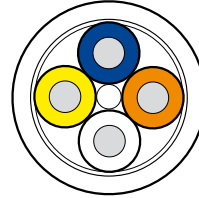
SHIELDED FIELDBUS CABLES – PUR

Industrial Ethernet

2 × 2 × 0.34 mm²



2 × 2 × 0.34 mm²



Approvals



1 Type of drum

Drum (100 m)	02
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

rot	792
Black	851

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	39.9 kg/km	37.9 kg/km
Outer diameter	approx. 6.7 mm	
Wire structure	7 strands, 2 × 2 × AWG 22/7 (2 × 2 × 0.34 mm ²)	
Wire insulation	PE	
Shielding	polyester foil, screen tinned copper wire braid (approx. 85 % covering), polyester fleece	
Outer jacket	PUR	
Resistance	halogen-free, labs-free, flame retardant, CFC-free, silicone-free	
	oil resistance in compliance with IEC 60811-2-1, ICEA S-82-552 and ASTM-Oil 1 Standard requirements	
	mud resistance in compliance with NEK 606 Standard requirement; ozone resistance in compliance with VDE 0472 §1 Standard requirements	
	microbe resistance in compliance with VDE 282/10 Standard requirements; UV resistance in compliance with UL 1581 §1200 Standard requirements	

Electrical data

Nominal voltage	60 V
Test voltage	1000 V

Temperature range

Fixed installation	-40 ... +80°C	-40 ... +80°C
Flexible installation	-30 ... +70°C	-20 ... +60°C

Bend radius

Fixed installation	5 × outer Ø
Flexible installation	12 × outer Ø

C-track data

Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 3 m/s ²)
Number of bending cycles	max. 3 M

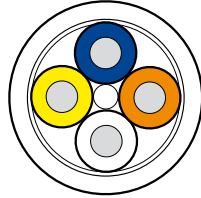
Transmission characteristics

Data rate	Category 5
Characteristic impedance	100 ± 15 Ohm 1–100 MHz
Conductor resistance	max. +55 Ohm/km
Insulation resistance	min. 5 GOhm × km

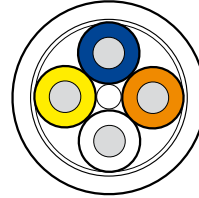
SHIELDED FIELDBUS CABLES – PUR

Industrial Ethernet

1 × 4 × 0.34 mm²



2 × 2 × 0.34 mm²



Approvals



1 Type of drum

Drum (100 m)	02
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Green	793	794
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Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	41.1 kg/km	39.9 kg/km
Outer diameter	approx. 6.5 mm	approx. 6.7 mm
Wire structure	19 strands, 1 × 4 × AWG 22/19 (1 × 4 × 0.34 mm ²)	7 strands, 2 × 2 × AWG 22/7 (2 × 2 × 0.34 mm ²)
Wire insulation	PE	
Shielding	polyester fleece, aluminum foil, screen tinned copper wire braid (approx. 85 % covering)	
Outer jacket	PUR	
Resistance	halogen-free, latex-free, flame retardant, CFC-free, silicone-free	
	oil resistance in compliance with IEC 60811-2-1, ICEA S-82-552 and ASTM-Oil 1 Standard requirements	
	ozone resistance in compliance with VDE 0472 §1 Standard requirements	
	microbe resistance in compliance with VDE 282/10 Standard requirements; UV resistance in compliance with UL 1581 §1200 Standard requirements	
	mud resistance in compliance with NEK 606 Standard requirement	

Electrical data

Nominal voltage	60 V	
Test voltage	1000 V	

Temperature range

Fixed installation	-40 ... +80°C	-40 ... +80°C
Flexible installation	-20 ... +60°C	-20 ... +60°C

Bend radius

Fixed installation	8 × outer Ø	6 × outer Ø
Flexible installation	12 × outer Ø	12 × outer Ø

Robot data

Torsion	± 180° / m (max. 1 M cycles)	–
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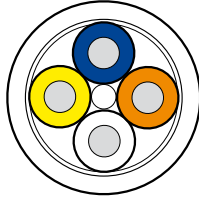
Transmission characteristics

Data rate	Category 5	
Characteristic impedance	100 ± 15 Ohm bei 100 MHz	
Conductor resistance	max. 60 Ohm/km	max. 55 Ohm/km
Insulation resistance	min. 5 GOhm × km	

SHIELDED FIELDBUS CABLES – PVC

Industrial Ethernet

2 × 2 × 0.34 mm²



Approvals



1 Type of drum

Drum (100 m)	02
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Green	800
-------	-----

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	38.7 kg/km
Outer diameter	approx. 6.5 mm
Wire structure	7 strands, 2 × 2 × AWG 22/7 (2 × 2 × 0.34 mm ²)
Wire insulation	PE
Shielding	polyester fleece, aluminum foil, screen tinned copper wire braid (approx. 85 % covering)
Outer jacket	PVC
Resistance	labs-free, flame retardant, CFC-free, silicone-free
	Oil-resistant according to IEC 60811-2-1 and ICEA S-82-55
	ozone resistance in compliance with VDE 0472 §1 Standard requirements
	microbe resistance in compliance with VDE 282/10 Standard requirements; UV resistance in compliance with UL 1581 §1200 Standard requirements
	mud resistance in compliance with NEK 606 Standard requirement

Electrical data

Nominal voltage	60 V
Test voltage	1000 V

Temperature range

Fixed installation	-30 ... +80°C
Flexible installation	-10 ... +70°C

Bend radius

Fixed installation	5 × outer Ø
Flexible installation	15 × outer Ø

C-track data

Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 2 m/s ²)
Number of bending cycles	max. 2 M

Transmission characteristics

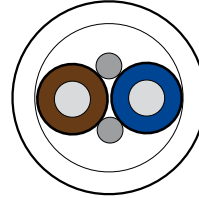
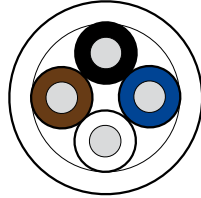
Data rate	Category 5
Characteristic impedance	100 ± 15 Ohm bei 100 MHz
Conductor resistance	max. 55 Ohm/km
Insulation resistance	min. 5 GOhm × km

UNSHIELDED FIELDBUS CABLES – PUR

ASI

4 × 0.75 mm²

2 × 1.5 mm²



Approvals



1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Gray	862	588
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Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	34.9 kg/km	35.1 kg/km
Outer diameter	approx. 6.5 mm	approx. 8.0 mm
Wire structure	0.75 mm ² (Class 6)	1.5 mm ² (Class 5)
Wire insulation	PP	
Outer jacket	PUR	
Resistance	limited resistance to oil and very high resistance to chemicals silicone-free, cadmium-free, lead-free, flame retardant, CFC-free, halogen-free resistant to microbes, hydrolysis and abrasion	

Electrical data

Nominal voltage	300 V	
Test voltage	2500 V	2000 V

Temperature range

Fixed installation	-40 ... +80°C	-50 ... +80°C
Flexible installation	-25 ... +80°C	

Bend radius

Fixed installation	5 × outer Ø	10 × outer Ø
Flexible installation	10 × outer Ø	15 × outer Ø

C-track data

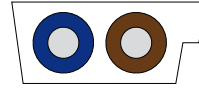
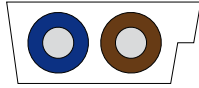
Movement speed	max. 3.3 m/s (stroke length 5m, acceleration 5 m/s ²)	max. 2 m/s (stroke length 5m, acceleration 5 m/s ²)
Number of bending cycles	max. 5 M	

Robot data

Torsion	± 180° /m (max. 2 M cycles)	-
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UNSHIELDED FIELDBUS CABLES – PUR

ASI

2 × 1.5 mm²2 × 2.5 mm²

Approvals



1 Type of drum

Drum (500, 1000, 3000 m) **99**

2 Cable length

500 m **05**1000 m **10**

3 Jacket color

Yellow **166****178**Black **784****779**

Article no.

1 2 3
7 0 0 0 - C -- -- - --- 0 0 0 0

Technical Data

Copper index	35.1 kg/km	58.1 kg/km
Outer diameter	Profilkabel	
Wire structure	1.5 mm ² (Class 6)	2.5 mm ² (Class 6)
Wire insulation	PP	
Outer jacket	PUR	
Resistance	resistance to oil, fuel and chemicals, halogen-free, flame retardant, FRNC, silicone-free	

Electrical data

Nominal voltage	32 V
Test voltage	1500 V

Temperature range

Fixed installation	-40 ... +80°C
Flexible installation	-40 ... +80°C

Bend radius

Fixed installation	3 × outer Ø	6 × outer Ø
Flexible installation	10 × outer Ø	

C-track data

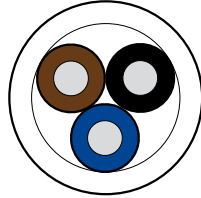
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 3 m/s ²)
Number of bending cycles	max. 2 M

| NOTES

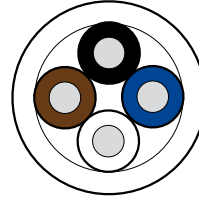
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| 600 V CABLES – PUR

3 × 0.25 mm²



4 × 0.25 mm²



Approvals



1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Black	644	645
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Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	9.1 kg/km	12.1 kg/km
Outer diameter	ca. 4.6 mm	ca. 5.0 mm
Wire structure	0.25 mm ² (Class 6)	
Wire insulation	PP	
Outer jacket	PUR	
Resistance	high resistance to oil, fuel and chemicals, resistant to microbes and hydrolysis halogen-free, silicone-free, cadmium-free, lead-free, flame retardant	

Electrical data

Nominal voltage	600 V
Test voltage	2000 V

Temperature range

Fixed installation	-40°C ... +80°C
Flexible installation	-25°C ... +80°C

Bend radius

Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø

C-track data

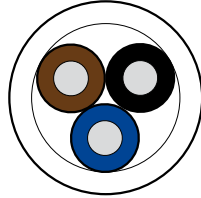
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 5 M

Robot data

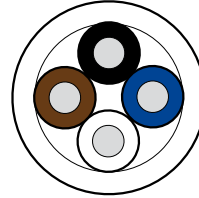
Torsion	± 180° / m (max. 2 M cycles)
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600 V CABLES – PUR

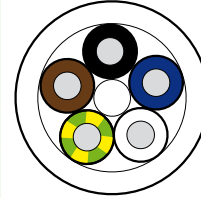
3 × 0.34 mm²



4 × 0.34 mm²



5 × 0.34 mm²



Approvals

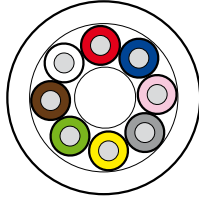


1	Type of drum			
	Drum (100 m)	01		
	Drum (200–500 m)	05		
2	Cable length			
	100 m	01		
	200 m	02		
	300 m	03		
	400 m	04		
	500 m	05		
3	Jacket color			
	Black	646	661	647
Article no.		1	2	3
		7	0	0
		0	0	0
		-	C	
		---	---	---
				0
				0
				0
				0

Technical Data			
Copper index	11.9 kg/km	16.3 kg/km	19.7 kg/km
Outer diameter	ca. 4.8 mm	ca. 5.1 mm	ca. 5.6 mm
Wire structure	0.34 mm ² (Class 6)		
Wire insulation	PP		
Outer jacket	PUR		
Resistance	high resistance to oil, fuel and chemicals, resistant to microbes and hydrolysis halogen-free, silicone-free, cadmium-free, lead-free, flame retardant		
Electrical data			
Nominal voltage	600 V		
Test voltage	2000 V		
Temperature range			
Fixed installation	-40°C ... +80°C		
Flexible installation	-25°C ... +80°C		
Bend radius			
Fixed installation	5 × outer Ø		
Flexible installation	10 × outer Ø		
C-track data			
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)		
Number of bending cycles	max. 5 M		
Robot data			
Torsion	± 180° / m (max. 2 M cycles)		

| 600 V CABLES – PUR

8 × 0.34 mm²



Approvals



1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Black	664
-------	-----

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	32.9 kg/km
Outer diameter	ca. 6.9 mm
Wire structure	0.34 mm ² (Class 6)
Wire insulation	PP
Outer jacket	PUR
Resistance	high resistance to oil, fuel and chemicals, resistant to microbes and hydrolysis halogen-free, silicone-free, cadmium-free, lead-free, flame retardant

Electrical data

Nominal voltage	600 V
Test voltage	2000 V

Temperature range

Fixed installation	-40°C ... +80°C
Flexible installation	-25°C ... +80°C

Bend radius

Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø

C-track data

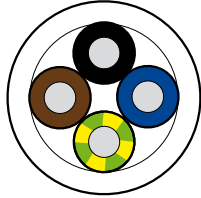
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 5 M

Robot data

Torsion	± 180° / m (max. 2 M cycles)
---------	------------------------------

| 600 V CABLES – PUR

4 × 0.5 mm²



Approvals

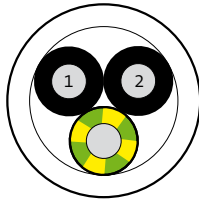


1 Type of drum	
Drum (100 m)	01
Drum (200–500 m)	05
2 Cable length	
100 m	01
200 m	02
300 m	03
400 m	04
500 m	05
3 Jacket color	
Black	667
Article no.	
	7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data	
Copper index	24.6 kg/km
Outer diameter	ca. 5.6 mm
Wire structure	0.5 mm ² (Class 6)
Wire insulation	PP
Outer jacket	PUR
Resistance	high resistance to oil, fuel and chemicals, resistant to microbes and hydrolysis halogen-free, silicone-free, cadmium-free, lead-free, flame retardant
Electrical data	
Nominal voltage	600 V
Test voltage	2000 V
Temperature range	
Fixed installation	-40°C ... +80°C
Flexible installation	-25°C ... +80°C
Bend radius	
Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø
C-track data	
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 5 M
Robot data	
Torsion	± 180° / m (max. 2 M cycles)

| 600 V CABLES – PUR

3 × 0.75 mm²



Approvals



1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Black	648
-------	-----

Article no.

7 0 0 0 - C
1
2
3
0 0 0 0

Technical Data

Copper index	26.4 kg/km
Outer diameter	ca. 6.0 mm
Wire structure	0.75 mm ² (Class 6)
Wire insulation	PP
Outer jacket	PUR
Resistance	high resistance to oil, fuel and chemicals, resistant to microbes and hydrolysis halogen-free, silicone-free, cadmium-free, lead-free, flame retardant

Electrical data

Nominal voltage	600 V
Test voltage	2000 V

Temperature range

Fixed installation	-40°C ... +80°C
Flexible installation	-25°C ... +80°C

Bend radius

Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø

C-track data

Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 5 M

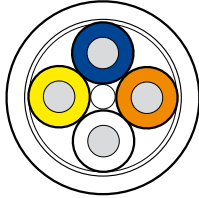
Robot data

Torsion	± 180° / m (max. 2 M cycles)
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600 V CABLES – PUR

Industrial Ethernet

1 × 4 × 0.34 mm²



Approvals



1 Type of drum

Drum (100 m)	02
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Green	659
-------	-----

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	41.1 kg/km
Outer diameter	ca. 7.4 mm
Wire structure	7 strands 1 × 4 × AWG22/7 (1 × 4 × 0.34 mm ²)
Wire insulation	PE
Shielding	polyester foil, inner sheath made of TPE-V, screen tinned copper wire braid (85 % covering)
Outer jacket	PUR
Resistance	halogen-free, latex-free, flame retardant, CFC-free, silicone-free mud resistance in compliance with NEK 606 Standard requirement ozone resistance in compliance with VDE 0472 §1 Standard requirements microbe resistance in compliance with VDE 282/10 Standard requirements UV resistance in compliance with UL 1581 §1200 Standard requirements

Electrical data

Nominal voltage	600 V
Test voltage	2000 V

Temperature range

Fixed installation	-40°C ... +80°C
Flexible installation	-30°C ... +70°C

Bend radius

Fixed installation	5 × outer Ø
Flexible installation	12 × outer Ø

C-track data

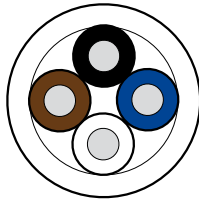
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 2 m/s ²)
Number of bending cycles	max. 2 M

Transmission characteristics

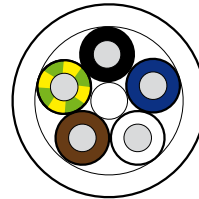
Data rate	Category 5
Characteristic impedance	100 ± 15 Ohm 100 MHz
Conductor resistance	max. 55 Ohm/km
Insulation resistance	min. 5 Gohm × km

NORTH AMERICAN MARKET – TPE

4 × 0.75 mm²



5 × 0.75 mm²



Approvals



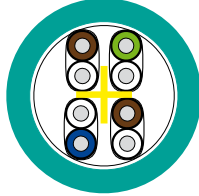
1	Type of drum	
	Drum (100 m)	01
	Drum (200–500 m)	05
2	Cable length	
	100 m	01
	200 m	02
	300 m	03
	400 m	04
	500 m	05
3	Jacket color	
	Yellow	150
		161
		162 *core 5 in Gray*
Article no.		
		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> 1 7 7 0 0 - C </div> <div style="text-align: center;"> 2 _ _ </div> <div style="text-align: center;"> 3 _ _ _ </div> <div style="text-align: center;"> 0 0 0 0 </div> </div>

Technical Data	
Copper index	36.9 kg/km
Outer diameter	ca. 6.6 mm
Wire structure	0.75 mm ² (Class 6)
Wire insulation	PVC
Outer jacket	TPE
Resistance	resistant to UV, oil and welding sparks flame retardant
Electrical data	
Nominal voltage	300 V
Test voltage	1500 V
Temperature range	
Fixed installation	-40 ... +105°C
Flexible installation	-20 ... +105°C
Bend radius	
Fixed installation	10 × outer Ø
Flexible installation	15 × outer Ø
C-track data	
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 2 M

NORTH AMERICAN MARKET – TPE

Industrial Ethernet

4 × 2 × 0.14 mm²



Approvals

UL Listed CMX Outdoor, CMR

1 Type of drum

Drum (100 m)	02
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Blue	S4X
------	-----

Article no.

7 7 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	30.3 kg/km
Outer diameter	ca. 7.4 mm
Wire structure	0.14 mm ² (Class 5)
Wire insulation	HDPE
Shielding	4 pairs stranded around cross-shaped insulator, PP foil, aluminum/polyester, screen tinned copper wire braid (ca. 75 % covering)
Outer jacket	TPE
Resistance	resistant to UV, oil and welding sparks

Electrical data

Nominal voltage	600 V
Test voltage	1000 V

Temperature range

Fixed installation	-40 ... +80°C
Flexible installation	-20 ... +80°C

Bend radius

Fixed installation	10 × outer Ø
Flexible installation	20 × outer Ø

C-track data

Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 2 m/s ²)
Number of bending cycles	max. 1 M

Robot data

Torsion	± 180° /m (max. 3 M cycles)
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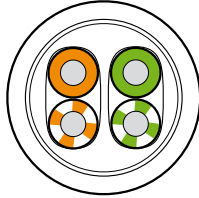
Transmission characteristics

Data rate	Category 5
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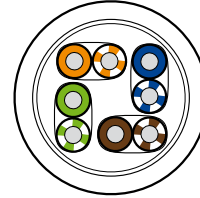
NORTH AMERICAN MARKET – TPE

Industrial Ethernet

2 × 2 × 0.25 mm²



4 × 2 × 0.25 mm²



Approvals

UL Listed CMX Outdoor

1 Type of drum

Drum (100 m)	02
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Blue	S4U	S4W
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Article no.

7 7 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	36.3 kg/km	50.7 kg/km
Outer diameter	ca. 6.6 mm	ca. 7.6 mm
Wire structure	7 strands, 2 × 2 × AWG24/7 (Class 5)	7 strands, 4 × 2 × AWG24/7 (Class 5)
Wire insulation	HDPE	
Shielding	polyester foil, screen tinned copper wire braid (ca. 75 % covering), aluminum/polyester fleece	
Outer jacket	TPE	
Resistance	resistant to UV, oil and welding sparks	

Electrical data

Nominal voltage	600 V
Test voltage	1000 V

Temperature range

Fixed installation	-40 ... +80°C
Flexible installation	-20 ... +80°C

Bend radius

Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø

C-track data

Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 2 m/s ²)
Number of bending cycles	max. 1 M

Robot data

Torsion	± 180° / m (max. 3 M cycles)
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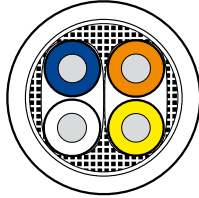
Transmission characteristics

Data rate	Category 5
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NORTH AMERICAN MARKET – TPE

Industrial Ethernet

2 × 2 × 0.34 mm²



Approvals

UL Listed ITC, PCTC, CMX Outdoor

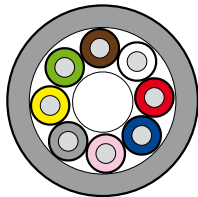
1	Type of drum	
	Drum (100 m)	02
	Drum (200–500 m)	05
2	Cable length	
	100 m	01
	200 m	02
	300 m	03
	400 m	04
	500 m	05
3	Jacket color	
	Green	S7V
Article no.		
	7 7 0 0 - C	1 2 3 0 0 0 0

Technical Data	
Copper index	36.3 kg/km
Outer diameter	ca. 7.8 mm
Wire structure	19 strands, 2 × 2 × AWG22/19 (Class 5)
Wire insulation	HDPE
Shielding	polyester foil, screen tinned copper wire braid (75% covering), aluminum/polyester fleece
Outer jacket	TPE
Resistance	resistant to UV, oil and welding sparks
Electrical data	
Nominal voltage	600 V
Test voltage	1000 V
Temperature range	
Fixed installation	-40 ... +80°C
Flexible installation	-20 ... +80°C
Bend radius	
Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø
C-track data	
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 2 m/s ²)
Number of bending cycles	max. 1 M
Robot data	
Torsion	± 180° /m (max. 3 M cycles)
Transmission characteristics	
Data rate	Category 5

RAIL CABLES ACCORDING TO EN 45545 – UNSHIELDED

SABIX

8 × 0.25 mm²



Approvals

CE DIN EN 45545

1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Gray	R42
------	-----

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	23.2 kg/km
Outer diameter	ca. 5.2 mm
Wire structure	0.25 mm ² (Class 5)
Wire insulation	SABIX
Outer jacket	SABIX
Resistance	halogen-free, flame retardant, self-extinguishing

Electrical data

Nominal voltage	500 V
Test voltage	1500 V

Temperature range

Fixed installation	-40 ... +90°C
Flexible installation	-30 ... +90°C

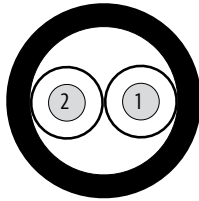
Bend radius

Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø

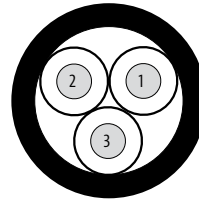
RAIL CABLES ACCORDING TO EN 45545 – UNSHIELDED

RADOX EM 104

2 × 0.5 mm²



3 × 0.5 mm²



Approvals

CE DIN EN 45545

1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Black	R01	R02
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Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	11.6 kg/km	17.4 kg/km
Outer diameter	ca. 4.4 mm	ca. 4.6 mm
Wire structure	0.5 mm ² (Class 5)	
Wire insulation	RADOX EI 303	
Outer jacket	RADOX EM 104	
Resistance	high resistance to oil and fuel halogen-free, flame retardant	

Electrical data

Nominal voltage	600/1000 V
Test voltage	3500 V

Temperature range

Fixed installation	-50 ... +120°C
Flexible installation	-25 ... +90°C

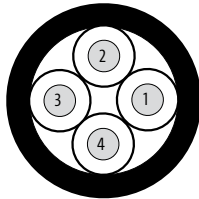
Bend radius

Fixed installation	3 × outer Ø
Flexible installation	4 × outer Ø

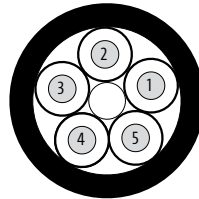
RAIL CABLES ACCORDING TO EN 45545 – UNSHIELDED

RADOX EM 104

4 × 0.5 mm²



5 × 0.5 mm²



Approvals

CE DIN EN 45545

1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Black	R03	R04
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Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	23.2 kg/km	29.0 kg/km
Outer diameter	ca. 5.0 mm	ca. 5.5 mm
Wire structure	0.5 mm ² (Class 5)	
Wire insulation	RADOX EI 303	
Outer jacket	RADOX EM 104	
Resistance	high resistance to oil and fuel halogen-free, flame retardant	

Electrical data

Nominal voltage	600/1000 V
Test voltage	3500 V

Temperature range

Fixed installation	-50 ... +120°C
Flexible installation	-25 ... +90°C

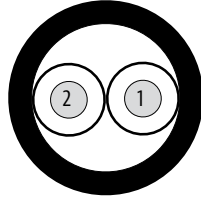
Bend radius

Fixed installation	3 × outer Ø
Flexible installation	4 × outer Ø

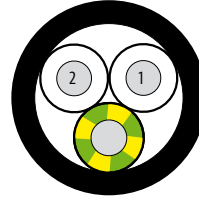
RAIL CABLES ACCORDING TO EN 45545 – UNSHIELDED

RADOX EM 104

2 × 0.75 mm²



3 × 0.75 mm²



Approvals

CE DIN EN 45545

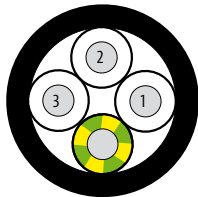
1 Type of drum	
Drum (100 m)	01
Drum (200–500 m)	05
2 Cable length	
100 m	01
200 m	02
300 m	03
400 m	04
500 m	05
3 Jacket color	
Black	R21 R26
Article no.	
<div style="display: flex; justify-content: space-around; align-items: center;"> 7 0 0 0 - C <div style="display: flex; gap: 10px;"> <div style="border: 1px solid black; padding: 2px 10px; text-align: center;">1</div> <div style="border: 1px solid black; padding: 2px 10px; text-align: center;">2</div> <div style="border: 1px solid black; padding: 2px 10px; text-align: center;">3</div> </div> - 0 0 0 0 </div>	

Technical Data	
Copper index	17.4 kg/km 26.1 kg/km
Outer diameter	ca. 4.75 mm ca. 5.15 mm
Wire structure	0.75 mm ² (Class 5)
Wire insulation	RADOX EI 303
Outer jacket	RADOX EM 104
Resistance	high resistance to oil and fuel halogen-free, flame retardant
Electrical data	
Nominal voltage	600/1000 V
Test voltage	3500 V
Temperature range	
Fixed installation	-50 ... +120°C
Flexible installation	-25 ... +90°C
Bend radius	
Fixed installation	3 × outer Ø
Flexible installation	4 × outer Ø

RAIL CABLES ACCORDING TO EN 45545 – UNSHIELDED

RADOX EM 104

4 × 0.75 mm²



Approvals

CE DIN EN 45545

1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Black	R27
-------	-----

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	34.9 kg/km
Outer diameter	ca. 5.6 mm
Wire structure	0.75 mm ² (Class 6)
Wire insulation	RADOX EI 303
Outer jacket	RADOX EM 104
Resistance	high resistance to oil and fuel halogen-free, flame retardant

Electrical data

Nominal voltage	600/1000 V
Test voltage	3500 V

Temperature range

Fixed installation	-50 ... +120°C
Flexible installation	-25 ... +90°C

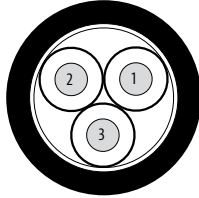
Bend radius

Fixed installation	3 × outer Ø
Flexible installation	4 × outer Ø

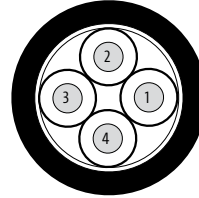
RAIL CABLES ACCORDING TO EN 45545 – SHIELDED

RADOX EM 104

3 × 0.5 mm²



4 × 0.5 mm²



Approvals

CE DIN EN 45545

1 Type of drum

Drum (100 m)	02
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Black	R12	R13
-------	-----	-----

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	37.5 kg/km	58.1 kg/km
Outer diameter	ca. 5.3 mm	ca. 5.4 mm
Wire structure	0.5 mm ² (Class 5)	
Wire insulation	RADOX EI 303	
Shielding	polyester foil, screen tinned copper wire braid (ca. 85 % covering), polyester fleece	
Outer jacket	RADOX EM 104	
Resistance	high resistance to oil and fuel halogen-free, flame retardant	

Electrical data

Nominal voltage	600/1000 V
Test voltage	3500 V

Temperature range

Fixed installation	-50 ... +120°C
Flexible installation	-25 ... +90°C

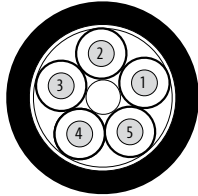
Bend radius

Fixed installation	3 × outer Ø
Flexible installation	4 × outer Ø

RAIL CABLES ACCORDING TO EN 45545 – SHIELDED

RADOX EM 104

5 × 0.5 mm²



Approvals

CE DIN EN 45545

1 Type of drum

Drum (100 m)	02
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Black	R14
-------	-----

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	67.6 kg/km
Outer diameter	ca. 6.2 mm
Wire structure	0.5 mm ² (Class 6)
Wire insulation	RADOX EI 303
Shielding	polyester foil, screen tinned copper wire braid (ca. 85 % covering), polyester fleece
Outer jacket	RADOX EM 104
Resistance	high resistance to oil and fuel halogen-free, flame retardant

Electrical data

Nominal voltage	600/1000 V
Test voltage	3500 V

Temperature range

Fixed installation	-50 ... +120°C
Flexible installation	-25 ... +90°C

Bend radius

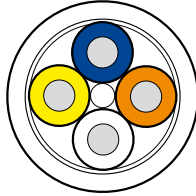
Fixed installation	3 × outer Ø
Flexible installation	4 × outer Ø

RAIL CABLES ACCORDING TO EN 45545 – SHIELDED

Industrial Ethernet

RADOX EM 104

4 × 0.34 mm²



Approvals

CE DIN EN 45545

1 Type of drum

Drum (100 m)	02
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Black	R64
-------	-----

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	39.9 kg/km
Outer diameter	ca. 6.6 mm
Wire structure	0.34 mm ² (Class 6)
Wire insulation	RADOX COM
Shielding	aluminum foil, screen tinned copper wire braid (ca. 85% covering), aluminum foil
Outer jacket	RADOX EM 104
Resistance	high resistance to oil and fuel halogen-free, flame retardant

Electrical data

Nominal voltage	300 V
Test voltage	2000 V

Temperature range

Fixed installation	-50 ... +90°C
Flexible installation	-40 ... +90°C

Bend radius

Fixed installation	6 × outer Ø
Flexible installation	10 × outer Ø

C-track data

Movement speed	max. 20 m/s (acceleration 3 m/s ²)
Number of bending cycles	max. 5 M

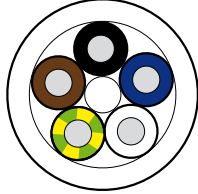
Transmission characteristics

Data rate	Category 5
Characteristic impedance	100 ± 5 Ohm bei 100 MHz
Conductor resistance	max. 54.4 Ohm/km

UNSHIELDED SENSOR/ACTUATOR CABLES – FEP

Hochtemperaturleitung

5 × 0.34 mm²



Approvals



1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Black	828
-------	-----

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	21.2 kg/km
Outer diameter	approx. 4.2 mm
Wire structure	0.34 mm ² (Class 5)
Wire insulation	FEP
Outer jacket	FEP
Resistance	resistant to UV, oil and welding sparks flame retardant

Electrical data

Nominal voltage	600 V
Test voltage	2000 V

Temperature range

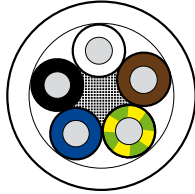
Fixed installation	-190 ... +180°C
Flexible installation	-190 ... +180°C

Bend radius

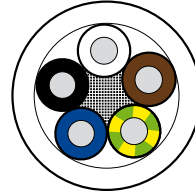
Fixed installation	7.5 × outer Ø
Flexible installation	15 × outer Ø

| POWER CABLES UNSHIELDED – PUR

5 × 1.5 mm²



5 × 2.5 mm²



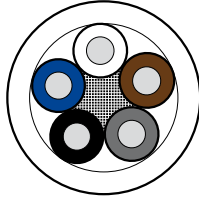
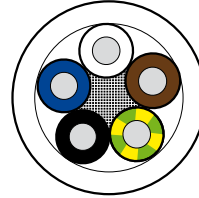
Approvals



1	Type of drum	
	Drum (100 m)	01
	Drum (200–500 m)	05
2	Cable length	
	100 m	01
	200 m	02
	300 m	03
	400 m	04
	500 m	05
3	Jacket color	
	Gray	961 962
Article no.		<div style="display: flex; justify-content: space-around; align-items: center;"> 1 2 3 </div> <u>7 0 0 0 - C</u> -- -- - --- <u>0 0 0 0</u>

Technical data		
Copper index	87.1 kg/km	145.2 kg/km
Outer diameter	approx. 8.7 mm	approx. 9.7 mm
Wire structure	1.5 mm ² (Class 6)	2.5 mm ² (Class 6)
Wire insulation	PP	
Outer jacket	PUR	
Resistance	resistance to oil, fuel and chemicals	
	resistant to microbes, hydrolysis and abrasion, halogen-free, flame retardant, silicone-free, cadmium-free, lead-free, CFC-free	
Electrical data		
Nominal voltage	1000 V	600 V
Test voltage	10 kV	3000 V
Temperature range		
Fixed installation	-50 ... +80°C	
Flexible installation	-20 ... +80°C	
Bend radius		
Fixed installation	7.5 × outer Ø	
Flexible installation	10 × outer Ø	
C-track data		
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)	
Number of bending cycles	max. 5 M	
Robot data		
Torsion	± 180°/m (max. 2 M cycles)	

| POWER CABLES UNSHIELDED – PUR

5 × 1.5 mm²5 × 1.5 mm²

Approvals



1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Black	P04	P05
-------	-----	-----

Article no.

1 2 3
7 0 0 0 - C _ _ _ _ - _ _ _ _ 0 0 0 0

Technical Data

Copper index	87.1 kg/km
Outer diameter	approx. 8.7 mm
Wire structure	1.5 mm ² (Class 6)
Wire insulation	PP
Outer jacket	PUR
Resistance	resistance to oil, fuel and chemicals
	resistant to microbes, hydrolysis and abrasion, halogen-free, flame retardant, silicone-free, cadmium-free, lead-free, CFC-free

Electrical data

Nominal voltage	600 V
Test voltage	3300 V

Temperature range

Fixed installation	-50 ... +80°C
Flexible installation	-20 ... +80°C

Bend radius

Fixed installation	7.5 × outer Ø
Flexible installation	10 × outer Ø

C-track data

Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 5 M

Robot data

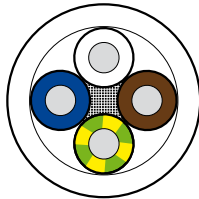
Torsion	± 180°/m (max. 2 M cycles)
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| POWER CABLES UNSHIELDED – PUR

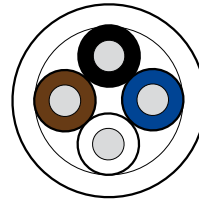
Approvals



4 × 1.5 mm²



4 × 1.5 mm²



1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Black	P06	P07
-------	-----	-----

Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	69.7 kg/km
Outer diameter	approx. 7.7 mm
Wire structure	1.5 mm ² (Class 6)
Wire insulation	PP
Outer jacket	PUR
Resistance	resistance to oil, fuel and chemicals resistant to microbes, hydrolysis and abrasion, halogen-free, flame retardant, silicone-free, cadmium-free, lead-free, CFC-free

Electrical data

Nominal voltage	600 V
Test voltage	3300 V

Temperature range

Fixed installation	-50 ... +80°C
Flexible installation	-20 ... +80°C

Bend radius

Fixed installation	7.5 × outer Ø
Flexible installation	10 × outer Ø

C-track data

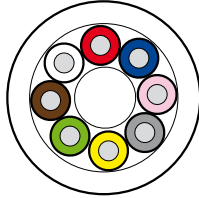
Movement speed	max. 3.3 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 5 M

Robot data

Torsion	± 180°/m (max. 2 M cycles)
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F&B CABLES – PP-LINE

8 × 0.25 mm²



Approvals



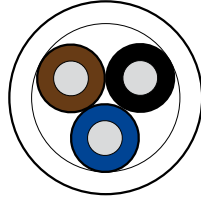
1 Type of drum	
Drum (100 m)	01
Drum (200–500 m)	05
2 Cable length	
100 m	01
200 m	02
300 m	03
400 m	04
500 m	05
3 Jacket color	
Ice Blue	312
Article no.	
	<div style="display: flex; justify-content: space-around; align-items: center;"> 1 2 3 </div> <u>7 0 0 0</u> - <u>C</u> _ _ - _ _ - _ _ _ _ <u>0 0 0 0</u>
Technical Data	
Copper index	24.4 kg/km
Outer diameter	approx. 6.0 mm
Wire structure	0.25 mm ² (Class 6)
Wire insulation	PP
Outer jacket	TPE
Resistance	good resistance to acidic and alkaline detergents and disinfectants in the food and beverage industry CFC-free, halogen-free, cadmium-free, silicone-free, lead-free, resistant to microbes, hydrolysis and abrasion
Electrical data	
Nominal voltage	300 V
Test voltage	3000 V
Temperature range	
Fixed installation	-40 ... +105°C
Flexible installation	-25 ... +105°C
Bend radius	
Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø
C-track data	
Movement speed	max. 3 m/s (stroke length 10 m, acceleration 10 m/s ²)
Number of bending cycles	max. 4 M
Robot data	
Torsion	± 180° / m (max. 2 M cycles)

F&B CABLES – PP-LINE

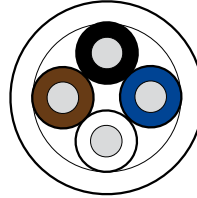
Approvals



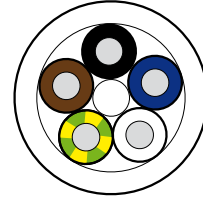
3 × 0.34 mm²



4 × 0.34 mm²



5 × 0.34 mm²



1 Type of drum

Drum (100 m)	01
Drum (200–500 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03
400 m	04
500 m	05

3 Jacket color

Ice Blue	315	321	339
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Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	11.9 kg/km	15.9 kg/km	19.9 kg/km
Outer diameter	approx. 4.3 mm	approx. 4.7 mm	approx. 5.0 mm
Wire structure	0.34 mm ² (Class 6)		
Wire insulation	PP		
Outer jacket	TPE		
Resistance	good resistance to acidic and alkaline detergents and disinfectants in the food and beverage industry CFC-free, halogen-free, cadmium-free, silicone-free, lead-free, resistant to microbes, hydrolysis and abrasion		

Electrical data

Nominal voltage	300 V
Test voltage	3000 V

Temperature range

Fixed installation	-40 ... +105°C
Flexible installation	-25 ... +105°C

Bend radius

Fixed installation	5 × outer Ø
Flexible installation	10 × outer Ø

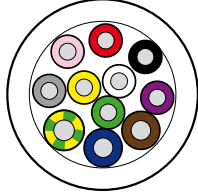
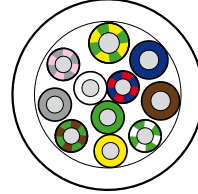
C-track data

Movement speed	max. 3 m/s (stroke length 10 m, acceleration 10 m/s ²)
Number of bending cycles	max. 4 M

Robot data

Torsion	± 180° / m (max. 2 M cycles)
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DISTRIBUTOR LEADS UNSHIELDED – PUR/PVC

 $8 \times 0.34 \text{ mm}^2 + 3 \times 0.75 \text{ mm}^2$

 $8 \times 0.34 \text{ mm}^2 + 3 \times 0.75 \text{ mm}^2$


Approvals



1 Type of drum

Drum (100 m)	02
Drum (200–300 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03

3 Jacket color

Gray	362	363
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Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	57.7 kg/km	57.8 kg/km
Outer diameter	ca. 8.1 mm	
Wire structure	0.34 mm ² / 0.75 mm ² (Class 5)	
Wire insulation	PVC	
Outer jacket	PUR/PVC	
Resistance	high resistance to oil, fuel and chemicals resistant to microbes, hydrolysis and abrasion, flame retardant	
		halogen-free, silicone-free, cadmium-free, lead-free, labs-free, CFC-free, self-extinguishing

Electrical data

Nominal voltage	300 V
Test voltage	2000 V

Temperature range

Fixed installation	-30°C ... +80°C
Flexible installation	-5°C ... +60°C

Bend radius

Fixed installation	7.5 × outer Ø
Flexible installation	10 × outer Ø

C-track data

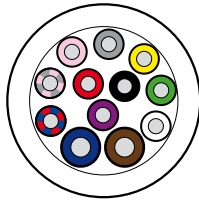
Movement speed	max. 2 m/s (stroke length 5 m, acceleration 10 m/s ²)
Number of bending cycles	max. 2 M

Application

8-way distributors, 4-pole	4-way distributors, 5-pole
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DISTRIBUTOR LEADS UNSHIELDED – PUR

10 × 0.34 mm² + 2 × 0.75 mm²



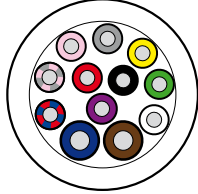
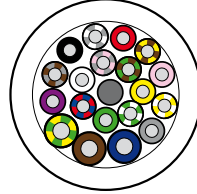
Approvals



1 Type of drum	
Drum (100 m)	02
Drum (200–300 m)	05
2 Cable length	
100 m	01
200 m	02
300 m	03
3 Jacket color	
Gray	384
Article no.	
	7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data	
Copper index	56.9 kg/km
Outer diameter	ca. 9.3 mm
Wire structure	0.34 mm ² / 0.75 mm ² (Class 5)
Wire insulation	TPE
Outer jacket	PUR
Resistance	high resistance to oil, fuel and chemicals resistant to microbes, hydrolysis and abrasion, flame retardant, halogen-free, silicone-free, cadmium-free, lead-free, labs-free, CFC-free, self-extinguishing
Electrical data	
Nominal voltage	300 V
Test voltage	2000 V
Temperature range	
Fixed installation	-40°C ... +80°C
Flexible installation	-5°C ... +60°C
Bend radius	
Fixed installation	7.5 × outer Ø
Flexible installation	10 × outer Ø
C-track data	
Movement speed	max. 2 m/s (stroke length 5 m, acceleration 5 m/s ²)
Number of bending cycles	max. 5 M
Application	
	10-way distributors, 3-pole

DISTRIBUTOR LEADS UNSHIELDED – PUR/PVC

 $10 \times 0.34 \text{ mm}^2 + 2 \times 0.75 \text{ mm}^2$

 $16 \times 0.34 \text{ mm}^2 + 3 \times 0.75 \text{ mm}^2$


Approvals



1 Type of drum

Drum (100 m)	02
Drum (200–300 m)	05

2 Cable length

100 m	01
200 m	02
300 m	03

3 Jacket color

Gray	385	398
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Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data

Copper index	56.9 kg/km	89.3 kg/km
Outer diameter	ca. 8.3 mm	ca. 10 mm
Wire structure	0.34 mm ² / 0.75 mm ² (Class 5)	
Wire insulation	PVC	
Outer jacket	PUR/PVC	
Resistance	high resistance to oil, fuel and chemicals	
	resistant to microbes and hydrolysis, flame retardant, halogen-free, silicone-free, cadmium-free, lead-free, CFC-free	
		resistant to abrasion, self-extinguishing, labs-free

Electrical data

Nominal voltage	300 V
Test voltage	2000 V

Temperature range

Fixed installation	-30°C ... +80°C
Flexible installation	-5°C ... +60°C

Bend radius

Fixed installation	7.5 × outer Ø
Flexible installation	10 × outer Ø

C-track data

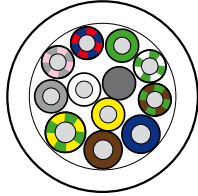
Movement speed	max. 2 m/s (stroke length 5 m, acceleration 10 m/s ²)
Number of bending cycles	max. 2 M

Application

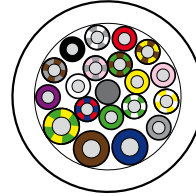
10-way distributors, 3-pole	8-way distributors, 5-pole
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DISTRIBUTOR LEADS UNSHIELDED – PUR

8 × 0.5 mm² + 3 × 1.0 mm²



16 × 0.5 mm² + 3 × 1.0 mm²



Approvals



1 Type of drum	
Drum (100 m)	02
Drum (200–300 m)	05
2 Cable length	
100 m	01
200 m	02
300 m	03
3 Jacket color	
Gray	448
	452

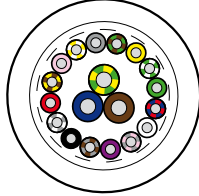
Article no.

7 0 0 0 - C 1 2 - 3 0 0 0 0

Technical Data	
Copper index	81.3 kg/km
Outer diameter	ca. 9.0 mm
Wire structure	0.5 mm ² / 1.0 mm ² (Class 6)
Wire insulation	TPE
Outer jacket	PUR
Resistance	high resistance to oil, fuel and chemicals
	resistant to microbes, hydrolysis and abrasion, flame retardant, halogen-free, silicone-free, cadmium-free, CFC-free
	lead-free
	self-extinguishing, labs-free
Electrical data	
Nominal voltage	300 V
Test voltage	2000 V
Temperature range	
Fixed installation	-40°C ... +80°C
Flexible installation	-20°C ... +80°C
	-5°C ... +80°C
Bend radius	
Fixed installation	8 × outer Ø
Flexible installation	10 × outer Ø
C-track data	
Movement speed	max. 2 m/s (stroke length 1.8 m, acceleration 5 m/s ²)
Number of bending cycles	max. 5 M
Application	
	4-way distributors, 5-pole
	6-way distributors, 5-pole

| DISTRIBUTOR LEADS SHIELDED – PUR

$16 \times 0.34 \text{ mm}^2 + 3 \times 0.75 \text{ mm}^2$



Approvals



1 Type of drum

Drum (100–300 m) **05**

2 Cable length

100 m **01**

200 m **02**

300 m **03**

3 Jacket color

Gray **401**

Article no.

1 **2** **3**
7 0 0 0 - C - - 0 0 0 0

Technical Data

Copper index 133.1 kg/km

Outer diameter ca. 11.7 mm

Wire structure 0.34 mm² / 0.75 mm² (Class 6)

Wire insulation TPE

Shielding polyester fleece, screen tinned copper wire braid (ca. 80% covering), polyester foil

Outer jacket PUR

Resistance high resistance to oil, fuel and chemicals

resistant to microbes, hydrolysis and abrasion, halogen-free, labs-free, silicone-free, cadmium-free, lead-free, CFC-free

Electrical data

Nominal voltage 300 V

Test voltage 2000 V

Temperature range

Fixed installation -40°C ... +90°C

Flexible installation -40°C ... +90°C

Bend radius

Fixed installation 10 × outer Ø

Flexible installation 12 × outer Ø

C-track data

Movement speed max. 2 m/s (stroke length 1.8 m, acceleration 5 m/s²)

Number of bending cycles max. 5 M

Application

8-way distributors, 5-pole

| NOTES

A large grid of small dots for taking notes, covering the majority of the page below the header.

| MURRELEKTRONIK CABLE GLANDS

Murrelektronik offers Premium cable glands and cable entries – Made in Germany – as cable accessories. No matter whether plastic or the EMC version, metric or PG, Murrelektronik has them all from M12 to M63 and from PG7 to PG48.

Your advantage: EVERYTHING FROM A SINGLE SOURCE!



Cable gland PA

- integrated strain relief
- large sealing and clamping area
- easy to assemble
- M12 to M63, PG7 to PG48



Cable gland brass

- integrated strain relief
- large sealing and clamping area
- easy to assemble
- anti-twist protection
- M12 to M63, PG7 to PG48



EMV2

- for cables with shielding
- contact spring for clean shield support
- integrated strain relief
- large sealing and clamping area
- M16 to M63



EMV1

- for cables with shielding
- integrated strain relief
- large sealing and clamping area
- anti-twist protection
- M12 to M63 / PG7 to PG29



Ordering system

Your order number can be defined according to your components. It only takes 4 simple steps.

Here an example:

1
2
3
4
7 0 0 0 - 9 1 0 0 1 - 1 0 0 7

1	Category	01
	01 Gland	
	02 Locknut	

2	Design	00
	00 Plastic PA (RAL 7035)	
	10 Brass	
	20 EMV Variant 1	
	21 EMV Variant 2	

3	Thread	1
	0 Metric	
	1 PG	

4	Thread size e.g.	07
	16 M16	
	07 PG7	

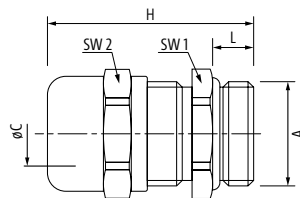
CABLE GLAND

PA Cable gland metric

- integrated strain relief
- large sealing and clamping area
- easy to assemble



Dimension drawing



Ordering data

	Variant (A)	Terminal ØC (mm)	Thread length L (mm)	SW 1 (mm)	SW2 (mm)	Height (mm)	Pieces (PU)	Art. No.
	M12 × 1.5	3 – 6	8	15	15	31	100	7000-91001-0001200
	M16 × 1.5	5 – 10	8	20	20	35.5	100	7000-91001-0001600
	M20 × 1.5	8 – 13	8	24	24	36	100	7000-91001-0002000
	M25 × 1.5	11 – 17	8	29	29	43	50	7000-91001-0002500
Flat sealing ring	M32 × 1.5	15 – 21	10	36	36	50	25	7000-91001-0003200
	M40 × 1.5	19 – 28	10	46	46	51	10	7000-91001-0004000
	M50 × 1.5	27 – 35	12	55	55	61.5	5	7000-91001-0005000
	M63 × 1.5	32 – 42	12	68	68	65.5	5	7000-91001-0006300

Structure

Cap nut	polyamide
Sealing ring	polychloroprene/nitrile rubber CR/NBR
Intermediate nozzle	polyamide
Connecting thread	metric, according to EN 60423

General data

Temperature range	-20°C ... +100°C
Protection class	IP68
Testing standard	EN 50262, UL 514B
Color	gray

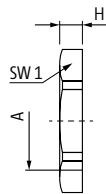
CABLE GLAND

PA counter nut metric

- secure fastening of cable glands and accessories



Dimension drawing



Ordering data

	Variant (A)	SW 1 (mm)	Height (mm)	Pieces (PU)	Art. No.
	M12 × 1.5	17	5	100	7000-91002-0001200
	M16 × 1.5	22	5	100	7000-91002-0001600
	M20 × 1.5	27	6	100	7000-91002-0002000
	M25 × 1.5	32	6	100	7000-91002-0002500
	M32 × 1.5	41	7	100	7000-91002-0003200
non-glass-fiber-reinforced	M40 × 1.5	50	7	50	7000-91002-0004000
	M50 × 1.5	60	8	50	7000-91002-0005000
	M63 × 1.5	75	8	50	7000-91002-0006300

Structure

Hexagonal nut	polyamide
Connecting thread	metric, according to EN 60423

General data

Temperature range	-20°C ... +100°C
Color	gray

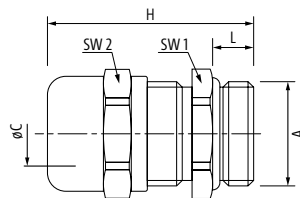
CABLE GLAND

Brass cable gland metric

- integrated strain relief
- large sealing and clamping area
- easy to assemble
- anti-twist protection



Dimension drawing



Ordering data

Variant (A)	Terminal ØC (mm)	Thread length L (mm)	SW 1 (mm)	SW2 (mm)	Height (mm)	Pieces (PU)	Art. No.	
M12 × 1.5	3 – 6	5	14	14	25	100	7000-91001-0101200	
M16 × 1.5	5 – 9	5	17	17	30	100	7000-91001-0101600	
M20 × 1.5	9 – 13	6	22	22	33.5	100	7000-91001-0102000	
M25 × 1.5	11 – 16	7	27	27	36.5	50	7000-91001-0102500	
M32 × 1.5	14 – 21	8	34	34	38	25	7000-91001-0103200	
M40 × 1.5	19 – 27	8	43	43	41	10	7000-91001-0104000	
Seal ring	M50 × 1.5	24 – 35	9	55	55	49.5	5	7000-91001-0105000
	M63 × 1.5	32 – 42	10	65	65	52.5	5	7000-91001-0106300

Structure

Cap nut	nickel-plated brass
Lamellar insert	polyamide
Sealing ring	polychloroprene/nitrile rubber CR/NBR
Intermediate nozzle	nickel-plated brass
Seal ring	nitrile rubber
Connecting thread	metric, according to EN 60423

General data

Temperature range	-20°C ... +100°C
Protection class	IP68
Testing standard	EN 50014, EN 50019

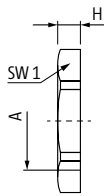
CABLE GLAND

Brass cable gland metric

- secure fastening of cable glands
and accessories



Dimension drawing



Ordering data

Variant (A)	SW 1 (mm)	Height (mm)	Pieces (PU)	Art. No.
M12 × 1.5	15	2.8	100	7000-91002-0101200
M16 × 1.5	19	2.8	100	7000-91002-0101600
M20 × 1.5	24	3	100	7000-91002-0102000
M25 × 1.5	30	3.5	100	7000-91002-0102500
M32 × 1.5	36	4	100	7000-91002-0103200
M40 × 1.5	46	5	50	7000-91002-0104000
M50 × 1.5	60	5	50	7000-91002-0105000
M63 × 1.5	70	6	50	7000-91002-0106300

Structure

Hexagonal nut	nickel-plated brass
Connecting thread	metric, according to EN 60423 and ISO 965

General data

Temperature range	-60°C ... +200°C
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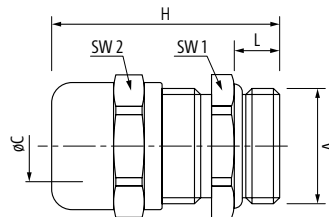
CABLE GLAND

Cable gland EMV1 metric

- for cables with shielding
- integrated strain relief
- large sealing and clamping area
- anti-twist protection



Dimension drawing



Ordering data

Variant (A)	Terminal ØC (mm)	Thread length L (mm)	SW 1 (mm)	SW2 (mm)	Height (mm)	Pieces (PU)	Art. No.
M12 × 1.5	3 – 6	5	14	14	25	100	7000-91001-0201200
M16 × 1.5	5 – 9	5	17	17	30	100	7000-91001-0201600
M20 × 1.5	9 – 13	6	22	22	33.5	100	7000-91001-0202000
M25 × 1.5	11 – 16	7	27	27	36.5	50	7000-91001-0202500
M32 × 1.5	14 – 21	8	34	34	38	25	7000-91001-0203200
M40 × 1.5	19 – 27	8	43	43	41	10	7000-91001-0204000
M50 × 1.5	24 – 35	9	55	55	49.5	5	7000-91001-0205000
M63 × 1.5	32 – 42	10	65	65	52.5	5	7000-91001-0206300

Structure

Cap nut	nickel-plated brass
Lamellar insert	polyamide
Sealing ring	polychloroprene/nitrile rubber CR/NBR
Intermediate nozzle	nickel-plated brass
Seal ring	nitrile rubber
Connecting thread	metric, according to EN 60423

General data

Temperature range	–20°C ... +100°C
Protection class	IP68
Testing standard	EN 50262

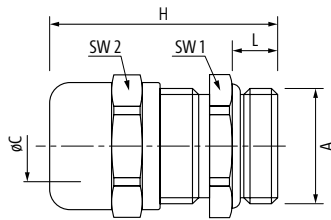
CABLE GLAND

Cable gland EMV2 metric

- for cables with shielding
- integrated strain relief
- large sealing and clamping area
- anti-twist protection



Dimension drawing



Ordering data

Variant (A)	Terminal ØC (mm)	Thread length L (mm)	SW 1 (mm)	SW 2 (mm)	Height (mm)	Pieces (PU)	Art. No.
M16 × 1.5	5 – 9	5	17	17	30	100	7000-91001-0211600
M20 × 1.5	9 – 13	6	22	22	33.5	100	7000-91001-0212000
M25 × 1.5	11 – 16	7	27	27	36.5	50	7000-91001-0212500
M32 × 1.5	14 – 21	8	34	34	38	25	7000-91001-0213200
M40 × 1.5	19 – 27	8	43	43	41	10	7000-91001-0214000
M50 × 1.5	24 – 35	9	55	55	49.5	5	7000-91001-0215000
M63 × 1.5	32 – 42	10	65	65	52.5	5	7000-91001-0216300

Structure

Cap nut	nickel-plated brass
Lamellar insert	polyamide
Sealing ring	polychloroprene/nitrile rubber CR/NBR
Contact spring	stainless steel
Intermediate nozzle	nickel-plated brass
Seal ring	nitrile rubber
Connecting thread	metric, according to EN 60423

General data

Temperature range	–20°C ... +100°C
Protection class	IP68
Testing standard	UL 514B

CABLE GLAND

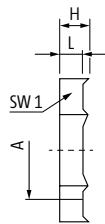
Brass locknut

EMV metric

- for secure fastening of EMV cable glands
- lacquer layers or powder coatings
- vibration resistance



Dimension drawing



Ordering data

Variant (A)	L (mm)	SW 1 (mm)	Height (mm)	Pieces (PU)	Art. No.
M12 × 1.5	4.5	15	5.5	100	7000-91002-0201200
M16 × 1.5	4.5	19	5.5	100	7000-91002-0201600
M20 × 1.5	4.5	24	5.5	100	7000-91002-0202000
M25 × 1.5	4.5	30	5.5	100	7000-91002-0202500
M32 × 1.5	4.5	36	5.5	100	7000-91002-0203200
M40 × 1.5	5	46	6	50	7000-91002-0204000
M50 × 1.5	5	60	6	50	7000-91002-0205000
M63 × 1.5	6	70	7	50	7000-91002-0206300

Structure

Hexagonal nut	nickel-plated brass
Connecting thread	metric, according to EN 60423

General data

Temperature range	-60°C ... +200°C
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Other

cutting edge

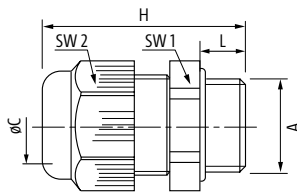
CABLE GLAND

PA Cable gland metric

- integrated strain relief
- large sealing and clamping area
- easy to assemble



Dimension drawing



Ordering data

	Variant (A)	Terminal ØC (mm)	Thread length L (mm)	SW 1 (mm)	SW2 (mm)	Height (mm)	Pieces (PU)	Art. No.
	PG 7	3 – 6.5	8	15	15	30.5	100	7000-91001-1000700
	PG 9	4 – 8	8	19	19	34	100	7000-91001-1000900
	PG 11	5 – 10	8	22	22	37	100	7000-91001-1001100
	PG 13	6 – 12	9	24	24	39	100	7000-91001-1001300
	PG 16	10 – 14	10	27	27	42.5	50	7000-91001-1001600
	PG 21	13 – 18	11	33	33	47.5	50	7000-91001-1002100
Seal ring	PG 29	18 – 25	11	42	42	53	25	7000-91001-1002900
	PG 36	22 – 32	13	53	53	61	10	7000-91001-1003600
	PG 42	30 – 38	13	60	60	65	5	7000-91001-1004200
	PG 48	34 – 44	14	65	65	67	5	7000-91001-1004800

Structure

Cap nut	polyamide
Sealing ring	polychloroprene/nitrile rubber CR/NBR
Intermediate nozzle	polyamide
Seal ring	nitrile rubber
Connecting thread	PG, according to DIN 40430

General data

Temperature range	–20°C ... +100°C
Protection class	IP68
Testing standard	UL 514B
Color	gray

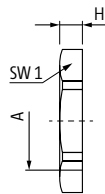
CABLE GLAND

PA Locknut
PG

– secure fastening of cable glands
and accessories



Dimension drawing



Ordering data

Variant (A)	SW 1 (mm)	Height (mm)	Pieces (PU)	Art. No.
PG 7	19	5	100	7000-91002-1000700
PG 9	22	5	100	7000-91002-1000900
PG 11	24	5	100	7000-91002-1001100
PG 13	27	6	100	7000-91002-1001300
PG 16	30	6	100	7000-91002-1001600
PG 21	36	7	100	7000-91002-1002100
PG 29	46	7	100	7000-91002-1002900
PG 36	60	8	50	7000-91002-1003600
PG 42	65	8	50	7000-91002-1004200
PG 48	70	8	50	7000-91002-1004800

Structure

Hexagonal nut	polyamide
Connecting thread	metric, according to DIN 40430

General data

Temperature range	-20°C ... +100°C
Color	gray

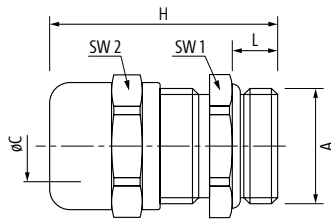
CABLE GLAND

Brass cable gland PG

- integrated strain relief
- large sealing and clamping area
- easy to assemble
- anti-twist protection



Dimension drawing



Ordering data

Variant (A)	Terminal ØC (mm)	Thread length L (mm)	SW 1 (mm)	SW 2 (mm)	Height (mm)	Pieces (PU)	Art. No.
PG 7	3 – 6.5	5	14	14	24	100	7000-91001-1100700
PG 9	4 – 8	6	17	17	29	100	7000-91001-1100900
PG 11	5 – 10	6	20	20	29.5	50	7000-91001-1101100
PG 13	6 – 12	6.5	22	22	31.5	50	7000-91001-1101300
PG 16	10 – 14	6.5	24	24	31.5	50	7000-91001-1101600
PG 21	13 – 18	7	30	30	34	50	7000-91001-1102100
PG 29	18 – 25	8	40	40	39	25	7000-91001-1102900
PG 36	24 – 32	9	50	50	45	10	7000-91001-1103600
PG 42	30 – 38	10	57	57	49	5	7000-91001-1104200
PG 48	34 – 44	10	64	64	52	5	7000-91001-1104800

Structure

Cap nut	nickel-plated brass
Lamellar insert	polyamide
Sealing ring	polychloroprene/nitrile rubber CR/NBR
Intermediate nozzle	nickel-plated brass
Seal ring	nitrile rubber
Connecting thread	PG, according to DIN 40430

General data

Temperature range	-20°C ... +100°C
Protection class	IP68

CABLE GLAND

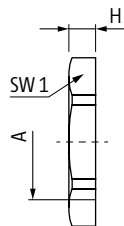
Brass locknut

PG

- secure fastening of cable glands and accessories



Dimension drawing



Ordering data

Variant (A)	SW 1 (mm)	Height (mm)	Pieces (PU)	Art. No.
PG 7	15	2.8	100	7000-91002-1100700
PG 9	18	2.8	100	7000-91002-1100900
PG 11	21	3	100	7000-91002-1101100
PG 13	23	3	100	7000-91002-1101300
PG 16	26	3	100	7000-91002-1101600
PG 21	32	3.5	100	7000-91002-1102100
PG 29	41	4	100	7000-91002-1102900
PG 36	51	5	50	7000-91002-1103600
PG 42	60	5	50	7000-91002-1104200
PG 48	64	5.5	50	7000-91002-1104800

Structure

Hexagonal nut	nickel-plated brass
Connecting thread	PG, according to DIN 40430

General data

Temperature range	-60°C ... +200°C
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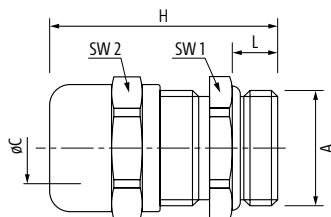
CABLE GLAND

Cable gland EMV1 PG

- for cables with shielding
- integrated strain relief
- large sealing and clamping area
- anti-twist protection



Dimension drawing



Ordering data

Variant (A)	Terminal $\varnothing C$ (mm)	Thread length L (mm)	SW 1 (mm)	SW 2 (mm)	Height (mm)	Pieces (PU)	Art. No.
PG 7	3 – 6.5	5	14	14	24	100	7000-91001-1200700
PG 9	4 – 8	6	17	17	29	100	7000-91001-1200900
PG 11	5 – 10	6	20	20	29.5	100	7000-91001-1201100
PG 13	6 – 12	6.5	22	22	31.5	50	7000-91001-1201300
PG 16	10 – 14	6.5	24	24	31.5	50	7000-91001-1201600
PG 21	13 – 18	7	30	30	34	25	7000-91001-1202100
PG 29	18 – 25	8	40	40	39	25	7000-91001-1202900

Structure

Cap nut	nickel-plated brass
Lamellar insert	polyamide
Sealing ring	polychloroprene/nitrile rubber CR/NBR
Intermediate nozzle	nickel-plated brass
Seal ring	nitrile rubber
Connecting thread	PG, according to DIN 40430

General data

Temperature range	-20°C ... +100°C
Protection class	IP68

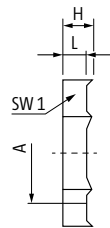
CABLE GLAND

Brass Locknut EMV PG

- for secure fastening of EMV cable glands
- for cutting paint layers or powder coatings
- increased vibration resistance



Dimension drawing



Ordering data

Variant (A)	L (mm)	SW 1 (mm)	Height (mm)	Pieces (PU)	Art. No.
PG 7	3.7	15	4.7	100	7000-91002-1200700
PG 9	3.7	18	4.7	100	7000-91002-1200900
PG 11	3.7	21	4.7	100	7000-91002-1201100
PG 13	3.7	23	4.7	100	7000-91002-1201300
PG 16	3.7	26	4.7	100	7000-91002-1201600
PG 21	4.2	32	5.2	100	7000-91002-1202100
PG 29	4.7	41	5.7	100	7000-91002-1202900
PG 36	5	51	6	50	7000-91002-1203600
PG 42	5	60	6	50	7000-91002-1204200
PG 48	5.5	64	6.5	50	7000-91002-1204800

Structure

Hexagonal nut	nickel-plated brass
Connecting thread	PG, according to DIN 40430

General data

Temperature range	-60°C ... +200°C
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Other

cutting edge

| CABLE ENTRY SYSTEM



Cable entry system rail

- uninterrupted cable entry
- use of pre-assembled cables
- to fit standard cut-outs
- degree of protection IP54
- up to 20 cables



Cable entry system plates

- maintenance-free rational connection technology
- for cable and pneumatic hoses
- alternative to cable gland
- to fit standard cut-outs
- degree of protection IP65




Cable entry system round

- metric M50 and M63 threads
- simple round hole cut-out
- simple snap on
- possible without fastening on opposite side
- degree of protection IP65

Information

Cables for data, control, bus and measurement signals and pre-assembled cables can be introduced uninterrupted into the cable entry system rails. The introduction of pre-assembled cables has the advantage that completely checked and tested cables with plugs can be used right away. In the cable entry system plates, the cables are simply plugged into the cable entry holes. Suitable for applications with electric cables and pneumatic hoses.

CABLE ENTRY SYSTEM

Cable entry system	Designation	Description	Art. No.	
	Sizes of rails 16	for 2 cables (2 large, 0 small)	4000-70103-000 2000	
		for 4 cables (0 large, 4 small)	4000-70103-000 4000	
		for 5 cables (1 large, 4 small)	4000-70103-010 4000	
		for 8 cables (0 large, 8 small)	4000-70103-000 8000	
	Sizes of rails 24	for 4 cables (2 large, 2 small)	4000-70103-020 2000	
		for 7 cables (1 large, 6 small)	4000-70103-010 6000	
		for 10 cables (0 large, 10 small)	4000-70103-001 0000	
		for cable diameters 3 ... 4 mm	4000-70403-000 1030	
		for cable diameters 4 ... 5 mm	4000-70403-000 1040	
		for cable diameters 5 ... 6 mm	4000-70403-000 1050	
	Grommets small with cable binder eyelet	for cable diameters 6 ... 7 mm	4000-70403-000 1060	
		for cable diameters 7 ... 8 mm	4000-70403-000 1070	
		for cable diameters 8 ... 9 mm	4000-70403-000 1080	
		for cable diameters 9 ... 10 mm	4000-70403-000 1090	
		for cable diameters 10 ... 11 mm	4000-70403-000 1100	
		for cable diameters 11 ... 12 mm	4000-70403-000 1110	
		for cable diameters 12 ... 13 mm	4000-70403-000 1120	
		for cable diameters 13 ... 14 mm	4000-70403-000 1130	
		for cable diameters 14 ... 15 mm	4000-70403-000 1140	
		for cable diameters 15 ... 16 mm	4000-70403-000 1150	
		Grommets large with cable binder eyelet	for cable diameters 16 ... 17 mm	4000-70403-010 0160
			for cable diameters 17 ... 18 mm	4000-70403-010 0170
	for cable diameters 18 ... 19 mm		4000-70403-010 0180	
	for cable diameters 19 ... 20 mm		4000-70403-010 0190	
	for cable diameters 20 ... 21 mm		4000-70403-010 0200	
	for cable diameters 21 ... 22 mm		4000-70403-010 0210	
		Grommets special form	for cable diameters 22 ... 23 mm	4000-70403-010 0220
			for cable diameters 23 ... 24 mm	4000-70403-010 0230
for cable diameters 24 ... 25 mm			4000-70403-010 0240	
for cable diameters 25 ... 26 mm			4000-70403-010 0250	
for cable diameters 26 ... 27 mm			4000-70403-010 0260	
for cable diameters 27 ... 28 mm			4000-70403-010 0270	
for cable diameters 28 ... 29 mm			4000-70403-010 0280	
for cable diameters 29 ... 30 mm			4000-70403-010 0290	
for cable diameters 30 ... 31 mm			4000-70403-010 0300	
			Designation	dummy sleeve small
	dummy sleeve large	4000-70503-010 0010		
	for 1 AS-Interface cable	4000-70503-000 1020		
	for 2 AS-Interface cables	4000-70503-000 1030		
	for 2 cables (diameter 5 mm)	4000-70503-000 1050		
	for 2 cables (diameter 6 mm)	4000-70503-000 1060		
	adapter for grommet	4000-70503-010 0020		
		Designation		for cable diameters 8 ... 12 mm (12 x)
Size 24			for cable diameters 3 ... 6.5 mm (6 x), 5 ... 9.2 mm (4 x), 9.6 ... 15.9 mm (4 x)	4000-70603-024 0140
			for cable diameters 5 ... 9.2 mm (17 x)	4000-70603-024 0170
			for cable diameters 3 ... 6.5 mm (16 x), 5 ... 9.2 mm (4 x), 8 ... 12.5 mm (2 x)	4000-70603-024 0220
			for cable diameters 4.3 ... 8.1 mm (23 x)	4000-70603-024 0230
			for cable diameters 3 ... 6.5 mm (29 x)	4000-70603-024 0290
			M50	for cable diameters 6–10 mm (3 x), 9.6–15.9 mm (1 x)
for cable diameters 3–5.5 mm (1 x), 5–9.2 mm (5 x)	4000-70703-050 0060			
for cable diameters 3.5–6.5 mm (7 x), 6–10 mm (1 x)	4000-70703-050 0080			
locknut M50, plastic Black	4000-70704-050 0000			
M63	for cable diameters 3.5–6.5 mm (2 x), 5–9.2 mm (4 x), 9.6–15.9 mm (2 x)	4000-70703-063 0080		
	for cable diameters 3–5.5 mm (6 x), 3.5–6.5 mm (6 x), 6–10 mm (1 x)	4000-70703-063 0130		
	for cable diameters 3–5 mm (19 x)	4000-70703-063 0190		
	locknut M63, plastic Black	4000-70704-063 0000		
Note	for sale only in packing units			

| PERFECTLY TUNED TOOL FOR YOUR APPLICATION!



When it comes to connectors, we have over 40 years of experience – and we want you to benefit from it. That's why we have compiled an assortment of tools that are perfect for working on our connectors and cables.

Our MURR Tools product family has all the tools you need for your electrical connections to work easily and practically. Our tools help you avoid making mistakes, which prevents downtimes due to poor connections. They also ensure outstanding efficiency.

Cutting

The cutting process is the first step when establishing an electrical connection. The cut must be of high quality to ensure that the subsequent processes run smoothly.

Cutting tools from Murrelektronik guarantee a smooth and straight cut. The conductor is not deformed or pinched in the process.

Maximum leverage and an ingenious cutting geometry allow you to work more efficiently, while being easy on the joints.





Stripping

The cutting process is followed by stripping. In this process, not only the cable is stripped of its jacket, but the insulation of the conductor is also removed up to a previously set length. During this process it must be avoided that the conductor is damaged.

The self-adjusting stripping pliers from Murrelektronik automatically adjust themselves to the conductor cross-section and the insulation thickness. This avoids the risk of damaging the conductor.

The handle of the Murrelektronik stripping tool is ergonomic in shape. It has a good grip and allows for non-slip and reliable working. Lockable spacers ensure consistently good results.



Crimping

The stripped cable ends are crimped with ferrule ends. The objective is to achieve a solder-free connection that is electrically and mechanically safe and cannot be undone.

The crimping tools from Murrelektronik are compact, allowing the ferrule ends to be reliably connected to the cable ends even in places of difficult access.

The ratcheting mechanism is designed for optimal crimping results. This avoids errors such as the ferrule end bursting open or crack formation at the longitudinal edges.

| PERFECTLY TUNED TOOL FOR YOUR APPLICATION!



Gripping

All Murrelektronik pliers are produced and tested according to DIN EN 60900.

The shape of the handle makes it easy to perform work that takes relatively long.

Accessories can be inserted into the system socket.



Accessory

The SoftGrip handles make the pliers from Murrelektronik fit well in the palm of the hand. Their ergonomic shape and handle zones of different softness allow work to be performed over an extended period of time without tiring.

The system clip from Murrelektronik protects employees from accidents caused by accidentally falling tools. It is compatible with all pliers with the SoftGrip handle.

| CABLE SHEARS



Ordering data		Art. No.
		7000-98100-000000
General data	<p>with straight, toothed cutting blade and wire cutter readjustable screwed articulation ergonomic multi-component handle for better handling made of tool steel</p>	
Technical Data		
Length	140 mm	
Cutting length	43 mm	
Weight	65 g	

| CABLE CUTTERS AND SIDE-CUTTING PLIERS



Ordering data	Art. No.	Art. No.
	7000-98131-000000	7000-98141-000000
General data	<p>precision-ground cutting blades with undulated profile for a smooth and clean cut long-lived cutting blade for stripping and cutting of jacketed copper and aluminum cables readjustable screwed articulation ergonomische 3 Komponenten Griffhülle ergonomic 3-component handle sleeve</p>	<p>for cutting hard and soft wires cutting blades additionally hardened by induction (cutting blade hardness approx. 62 HRC) power tool with optimum lever action for easy working without tiring precision cutting blades for ultrafine wires</p>
Technical Data		
Length	160 mm	160 mm
Cutting value	16 mm cable Al + Cu multiconductor single- and multi-wire 50 mm ² cable Al + Cu multiconductor single- and multi-wire	6 mm soft wire for blade form up to 220 N/mm ² Al, Cu, plastic 3.5 mm medium hard wire up to 750 N/mm ² nail, wire nail 2 mm hard wire up to 1800 N/mm ² wire rope strand, steel wire 11 mm cable Al + Cu multiconductor single- and multi-wire
Weight	185 g	210 g

| STRIPPING TOOL



Ordering data	Art. No. 7000-98201-000000	Art. No. 7000-98211-000000
General data	for flush stripping, even in places of difficult access slip-resistant and safe working thanks to an ergonomic handle shape	defined locking positions for circular, longitudinal and spiral cuts reduced risk of blade breakage thanks to autom. return of the blade to the starting position after stripping hook change without special tools ergonomic – rests for thumb, index and small fingers
Technical Data		
Length	140 mm	167 mm
Cable cross-section	min. 8 mm; max. 13 mm	min. 4.5 mm; max. 40 mm
Weight	45 g	116 g

| STRIPPING PLIERS



Ordering data	Art. No. 7000-98301-000000	Art. No. 7000-98311-000000
General data	cassette with straight blade largest possible stripping capacity of all tools of this type long-lived integrated cutting function fine adjustment feature for removing thin and thick insulations after stripping, the stripping blades open and remain open – easy ejection of the removed jacket robust, long-lived, user-friendly, ergonomic	pistol type handle
Technical Data		
Length	191 mm	144 mm
Cable cross-section	0.02 bis 10 mm ² / AWG 34-8	
Insulation stripping length	3–18 mm	
Weight	136 g	165 g

CRIMPING PLIERS



Ordering data		Art. No.
		7000-98401-000000
General data	<p>ratchet (with emergency release) to ensure crimping according to specification</p> <p>slip-resistant and safe working thanks to ergonomic handles</p> <p>compact design for easier access even in places of difficult access</p> <p>crimp profile: hexagonal</p>	
Technical Data		
Length	176 mm	
Cutting length	conductor cross-section: 0.14-10 mm ² /AWG 26-8	
Weight	371 g	

POWER COMBINATION PLIERS AND NEEDLE-NOSE PLIERS



Ordering data	Art. No.	Art. No.
	7000-98151-000000	7000-98161-000000
General data	<p>with nail & wire holder</p> <p>for cutting hard and soft wires</p> <p>gripping zones for flat and round materials</p> <p>with integrated ring wrench</p> <p>power tool with optimum lever action</p> <p>for easy working without tiring</p>	<p>for cutting hard and soft wires</p> <p>with cutting edge and burner hole</p> <p>with long, flat-round jaws, gripping surfaces toothed</p>
Technical Data		
Length	180 mm	205 mm
Cutting value	<p>5.2 mm soft wire up to 220 N/mm² Al, Cu, plastic</p> <p>3.4 mm medium hard wire up to 750 N/mm² nail, wire nail</p> <p>2.2 mm soft wire up to 1800 N/mm² wire rope strand, steel wire</p> <p>12 mm cable – Al + Cu multiconductor single- and multi-wire</p>	<p>3.9 mm soft wire up to 220 N/mm² Al, Cu, plastic</p> <p>3.2 mm medium hard wire up to 750 N/mm² nail, wire nail</p>
Weight	260 g	190 g

| SYSTEM CLIP WITH LANYARD



Ordering data

Art. No.

7000-98999-000000

General data

protects from accidents caused by accidentally falling tools

the easy slip-on system clip (fastening adapter) produces a secure connection between pliers with SoftGrip handles and the security tape.

compatible with all pliers with SoftGrip handles

the system clip can be combined with existing tool falling safeguards and can be connected a snap hook or cord

the adaptive system clip allows quick fastening and storage of the equipment

Technical Data

Length 450 mm

Width 10 mm

Weight 10 g

| NOTES

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| COPPER PRICE

In general, the cost of material for cables and wires is based on a copper price of €150.00/100 kg. At the time of invoicing, the difference between the general cost and the daily rate is calculated as copper surcharge.

The formula for calculating the copper surcharge is:

$$\text{Copper surcharge EUR/km} = \text{copper index (kg/km)} \times \frac{(\text{DEL} + 1\% \text{ delivery costs}) - \text{copper basis}}{100}$$

DEL

DEL (German Electrolytic High-Conductivity Copper) is the German stock exchange rate for 99.5% pure copper and can be found in EUR/100 kg in the business section of any newspaper.

Example: DEL rate = €194.29

The price for 100 kg copper is €194.29 plus

1% delivery costs added for cables.

Copper Basis

The prices stated in our general catalog include a certain copper percentage for almost all cables.

- Copper basis = €150.00/100 kg

Copper Index

The copper index is indicated in our general catalog. It is the weight of copper in a cable.

Example:

Jacket color/code 636 3 x 0.75 mm²

Copper index 23.8 kg/km

Calculation example for 636 3 x 0.75 mm²

DEL €194.29/100 kg (assumed value)

Copper basis = €150.00/100 kg

Copper index 23.8 kg/km

$$\text{Copper surcharge} = 23.8 \times \frac{(194.29 + 1.9429) - 150}{100}$$

= €11/km

The net price including copper is calculated with:

- Gross price
- Individual discount
- Copper surcharge

Note

In our invoices, the copper surcharge is shown separately.

WIRE STRUCTURE

DIN VDE 0295, IEC 60228 bzw. HD 383

Wire cross section in mm	Stranded wires		Four-strand wires		Fine-strand wires		Extra-fine strand wires							
	Class 2 DIN VDE 0295				Class 5 DIN VDE 0295		Class 6 DIN VDE 0295							
	Column 1		Column 2		Column 3		Column 4		Column 5		Column 6		Column 7	
	No. of strands	Single strand	No. of strands	Single strand	No. of strands	Single strand	No. of strands	Single strand	No. of strands	Single strand	No. of strands	Single strand	No. of strands	Single strand
0.14					18	0.10	18	0.10	18	0.1	36	0.07	72	0.5
0.25					14	0.15	32	0.10	32	0.1	65	0.07	128	0.5
0.34			7	0.25	19	0.15	42	0.10	42	0.1	88	0.07	174	0.5
0.38			7	0.27	12	0.20	21	0.15	48	0.1	100	0.07	194	0.5
0.5	7	0.30	7	0.30	16	0.20	28	0.15	64	0.1	131	0.07	256	0.5
0.75	7	0.37	7	0.37	24	0.20	42	0.15	96	0.1	195	0.07	384	0.5
1.0	7	0.43	7	0.30	32	0.20	56	0.15	128	0.1	260	0.07	512	0.5
1.5	7	0.52	7	0.37	30	0.25	74	0.15	192	0.1	392	0.07	768	0.5

CONVERSION AWG TO METRIC CROSS SECTIONS

AWG	mm ²	AWG	mm ²	AWG	mm ²	kcmil	mm ²
30	0.05	18	0.75	6	16	300	150
28	0.08	17	1	4	25	350	185
26	0.14	16	1.5	2	35	500	240
24	0.25	14	2.5	1	50	600	300
22	0.34	12	4	2/0	70	750	400
21	0.38	10	6	3/0	95	1000	500
20	0.5	8	10	4/0	120		

OVERVIEW OF INSULATION MATERIALS

Temperature range	Volume resistivity (Ω × cm)	Capacitancy (10 ⁻³)	Elongation %	Tensile strength N/mm ²	Oil resistance	Fuel resistance	Weather resistance
Y = PV C (polyvinyl chloride) self-extinguishing							
-30 ... +70°C	10 ¹² -10 ¹⁵	4.0	150-300	10-25	moderate	high	moderate
11Y = PUR (polyurethane) / flammable							
-40 ... +90°C	10 ¹²	4.0-6.0	300-600	30-45	high	high	very high
2Y = LDPE (high pressure polyethylene) / flammable							
-50 ... +70°C	10 ¹⁷	2.3	500	20-30	low	moderate	high
2Y = HDPE (low pressure polyethylene) / flammable							
-50 ... +100°C	10 ¹⁷	2.3	800	30	low	moderate	moderate
12Y = TPE-E (thermoplastic polyester elastomer) / flammable							
-70 ... +125°C	10 ¹²	3.7-5.1	280-650	3-25	high	very high	very high
02Y = Cell-PE (cell polyethylene) / flammable							
-40 ... +70°C	10 ¹⁷	1.6	350-450	8-12	low	moderate	high
9Y = PP (polypropylene) / flammable							
-40 ... +80°C	10 ¹⁶	2.3-2.4	300	20-35	high	high	moderate

(All data are intended as guidelines only)

| CURRENT CAPACITY (DIN VDE 0298-4, 2003-08/¹⁾ VDE 0891-1)

of cables with nominal voltage up to 1000 V and heat resistant cables
at ambient temperature +30°C

	Single wire cables	Multiple wire cables for home and handheld devices	Multiple wire cables excluding home and handheld devices
	<ul style="list-style-type: none"> • Rubber insulation • PVC insulation • TPE insulation • Heat resistant 	<ul style="list-style-type: none"> • Rubber insulation • PVC insulation • TPE insulation 	<ul style="list-style-type: none"> • Rubber insulation • PVC insulation • TPE insulation • Heat resistant
Nominal cross section in mm ²	Capacity in [A]	Capacity in [A]	Capacity in [A]
0.08 ¹⁾	1.5	-	1
0.14 ¹⁾	3	-	2
0.25 ¹⁾	5	-	4
0.34 ¹⁾	8	-	6
0.5	12	3	9
0.75	15	6	12
1	19	10	15
1.5	24	16	18
2.5	32	20	26

| CONVERSION FACTORS

for ambient temperatures different from 30°C referring to DIN VDE 0298-4, 2003-08. Permissible or recommended operation temperature on the conductor (see info temperature range on the previous product)

Ambient temperature in °C	60°C	70°C	80°C	85°C	90°C
	Conversion factors				
10	1.29	1.22	1.18	1.17	1.15
15	1.22	1.17	1.14	1.13	1.12
20	1.15	1.12	1.1	1.09	1.08
25	1.08	1.06	1.05	1.04	1.04
30	1.00	1.00	1.00	1.00	1.00
35	0.91	0.94	0.95	0.95	0.96
40	0.82	0.87	0.89	0.90	0.91
45	0.71	0.79	0.84	0.85	0.87
50	0.58	0.71	0.77	-	0.82
55	0.41	0.61	0.71	-	0.76
60	-	0.50	0.63	-	0.71
65	-	0.35	0.55	-	0.65
70	-	-	0.45	-	0.58
75	-	-	0.32	-	0.50
80	-	-	-	-	0.41
85	-	-	-	-	0.29

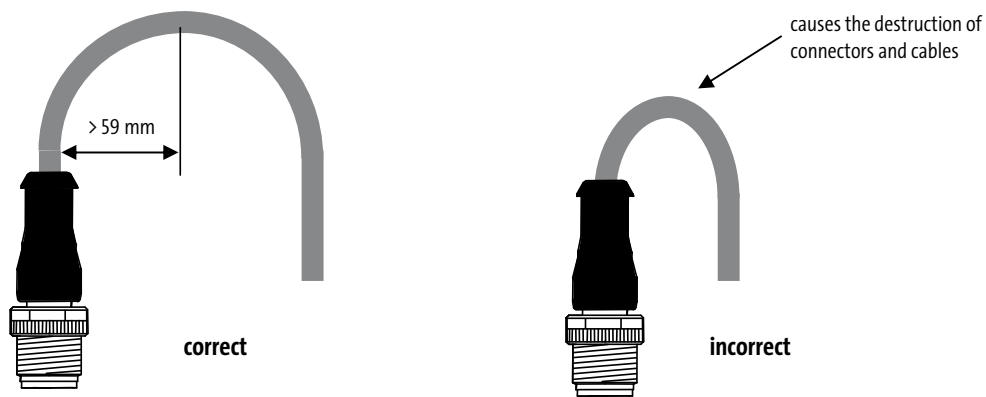
| INSTALLATION INSTRUCTIONS FOR SENSOR/ACTUATOR CONNECTORS

Professional installation guarantees the following:

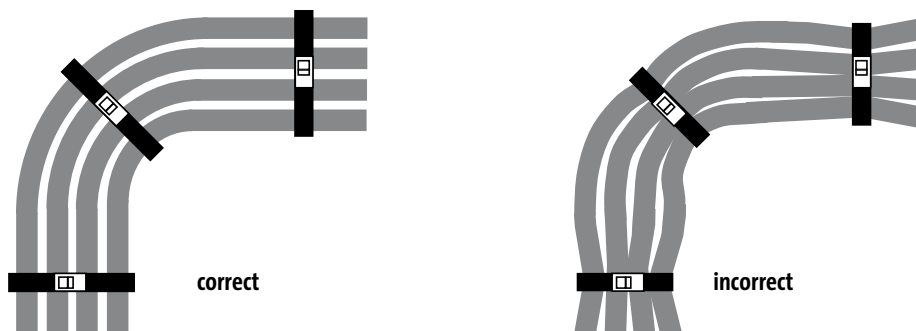
- reliable and safe electrical connections (even when exposed to chemical and mechanical influences)
- long system lifetime
- low maintenance and repair costs

Avoid the following common problems:

- apply the recommended amount of torque for the particular type of connector (use a torque wrench to be sure!).
- do not exceed the maximum bending radius when laying the cable (example: cable diameter = 5.9 mm, bending radius = min. 10x outer diameter, i.e. bending radius = min. 59 mm)



- If you use cable ties, make sure they do not cut into the cable jacket or deform the cable. This will help prevent short-circuits, line breaks and dips in dielectric strength.



| NOTES

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| NOTES

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Liability for the correctness, completeness and topicality of the information is restricted to gross negligence.

Our company embraces social responsibility in all aspects of our business activities.
Our brochures are printed using environmentally friendly production techniques and products.

