



Obstacle detection for buses & trains



EN | Data sheet

7500509	EKS 002 TPE
7501755	EKS 026 TPE
7501869	EKS 030 TPE
7500674	SE 1 15 TPE
7500270	SE 1 18 TPE

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Overview of combinations

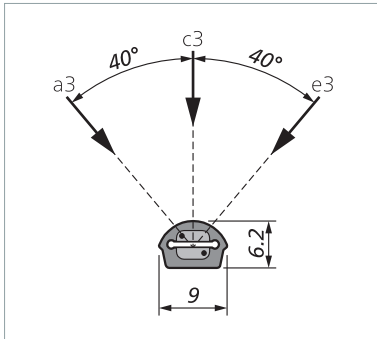
Cables	EKS ... TPE			SE ... TPE	
	002	026	030	1 15	1 18
1003288	○		○	○	○
1004681		●			
1004733	●		●	●	●
1004821	○		○	○	○
1005052	○		○	○	○
1005437		○			
1005975	○		○	○	○
1006180	○		○	○	○
1006491	○		○	○	○
1007144	○		○	○	○

● = standard

○ = optional

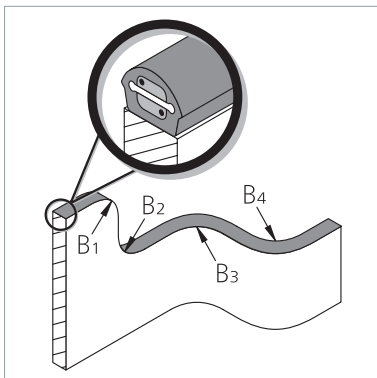
Sensors

7500509 EKS 002 TPE



Dimensional tolerances according to ISO 3302 E2/L2

Bend radii:



Switching characteristics at $v_{\text{test}} = 50 \text{ mm/min}$			
Actuation force (c3)	+23 °C	−25 °C	−40 °C
Test piece (rod) Ø 20 mm	< 15 N	< 20 N	< 30 N
Test piece (cylinder) Ø 80 mm	< 60 N	< 100 N	< 130 N
Actuation distance (c3)	< 1.5 mm		
Test piece (cylinder) Ø 80 mm			
Actuation angle (a3 to e3)	±40°		
Test piece (cylinder) Ø 80 mm			
Safety classifications			
ISO 13849-1: B _{10D}	2× 10 ⁶		
Mechanical operating conditions			
Sensor length (min./max.)	100 mm / 150 m		
Cable length (min./max.)	200 mm / 100 m		
Tensile load, cable (max.)	60 N		
Bend radii, minimum	50 / 80 / 120 / 120 mm		
B ₁ / B ₂ / B ₃ / B ₄			
IEC 60529: degree of protection	IP67		
EN 50125-1:	TX AX, max. 2000 m NHN 100% 3 K/s		
Air temperature class			
Class of altitude range			
Max. humidity at			
Max. temperature change	−40 to +80 °C		
Operating temperature	−40 to +100 °C		
Short-term (max. 10 min)	43 g/m		
Weight (without cable)			
Electrical operating conditions			
When sensor is not actuated	1k2, 8k2, others on request 250 mW		
Terminal resistance (±1%)			
Nominal output (max.)	Test piece (cylinder) Ø 80 mm, F = 150 N		
When sensor is actuated			
Contact transition resistance	< 400 ohms		
Switching current (min. / max.)	DC 1 mA / DC 10 mA		
More than one sensor	Max. 5 in series		
Connection cable	1004733		

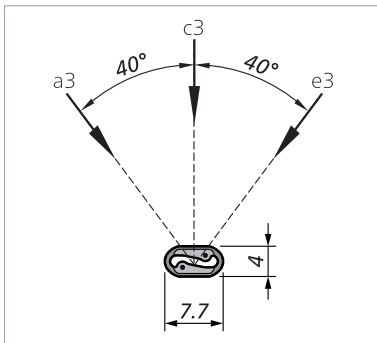
Physical resistance

See page 8

Chemical resistance

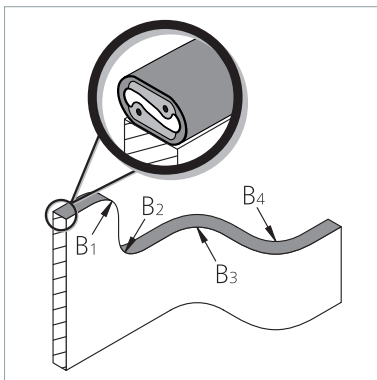
See page 8

7501755 EKS 026 TPE



Dimensional tolerances according to ISO 3302 E2/L2

Bend radii:



Switching characteristics at $v_{\text{test}} = 50 \text{ mm/min}$

	+23 °C	-25 °C	-40 °C
Actuation force (c3)			
Test piece (rod) Ø 20 mm	< 10 N	< 15 N	< 20 N
Test piece (cylinder) Ø 80 mm	< 50 N	< 90 N	< 100 N
Actuation distance (c3)			
Test piece (cylinder) Ø 80 mm	< 1.5 mm		
Actuation angle (a3 to e3)			
Test piece (cylinder) Ø 80 mm	±40°		

Safety classifications

ISO 13849-1: B _{10D}	2 × 10 ⁶
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Mechanical operating conditions

Sensor length (min./max.)	100 mm / 150 mm
Cable length (min./max.)	200 mm / 100 mm
Tensile load, cable (max.)	20 N
Bend radii, minimum	
B ₁ / B ₂ / B ₃ / B ₄	80 / 50 / 120 / 120 mm
IEC 60529: degree of protection	IP67
EN 50125-1:	
Air temperature class	TX
Class of altitude range	AX, max. 2000 m NHN
Max. humidity at	100%
Max. temperature change	3 K/s
Operating temperature	-40 to +80 °C
Short-term (max. 10 min)	-40 to +100 °C
Weight (without cable)	23 g/m

Electrical operating conditions

When sensor is not actuated	
Terminal resistance (±1%)	1k2, 8k2, others on request
Nominal output (max.)	250 mW
When sensor is actuated	
	Test piece (cylinder) Ø 80 mm, F = 150 N
Contact transition resistance	< 400 ohms
Switching current (min. / max.)	DC 1 mA / DC 10 mA
More than one sensor	Max. 5 in series
Connection cable	1004681

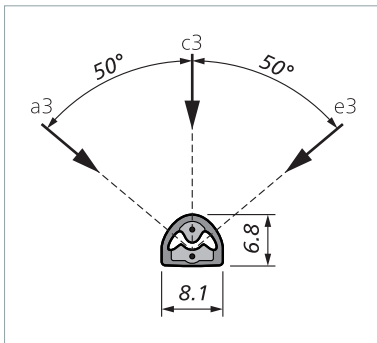
Physical resistance

See page 8

Chemical resistance

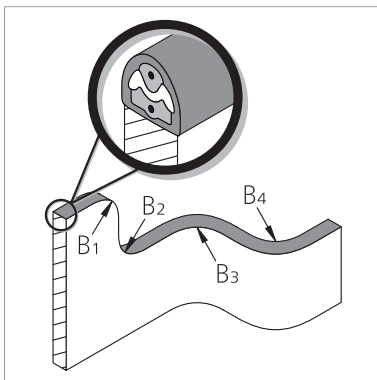
See page 8

7501869 EKS 030 TPE



Dimensional tolerances
according to ISO 3302 E2/L2

Bend radii:



Switching characteristics at $v_{\text{test}} = 50 \text{ mm/min}$

	+23 °C	-25 °C	-40 °C
Actuation force (c3)			
Test piece (rod) Ø 20 mm	< 15 N	< 25 N	< 30 N
Test piece (cylinder) Ø 80 mm	< 80 N	< 120 N	< 140 N
Actuation distance (c3)			
Test piece (cylinder) Ø 80 mm	< 2.0 mm		
Actuation angle (a3 to e3)			
Test piece (cylinder) Ø 80 mm	±50°		

Safety classifications

ISO 13849-1: B _{10D}	2 × 10 ⁶
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Mechanical operating conditions

Sensor length (min./max.)	100 mm / 150 mm
Cable length (min./max.)	200 mm / 100 mm
Tensile load, cable (max.)	40 N
Bend radii, minimum	
B ₁ / B ₂ / B ₃ / B ₄	70 / 60 / 30 / 30 mm
IEC 60529: degree of protection	IP67
EN 50125-1:	
Air temperature class	TX
Class of altitude range	AX, max. 2000 m NHN
Max. humidity at	100%
Max. temperature change	3 K/s
Operating temperature	-40 to +80 °C
Short-term (max. 10 min)	-40 to +100 °C
Weight (without cable)	40 g/m

Electrical operating conditions

When sensor is not actuated	
Terminal resistance (±1%)	1k2, 8k2, others on request
Nominal output (max.)	250 mW
When sensor is actuated	Test piece (cylinder) Ø 80 mm, F = 150 N
Contact transition resistance	< 400 ohms
Switching current (min. / max.)	DC 1 mA / DC 10 mA
More than one sensor	Max. 5 in series
Connection cable	1004733

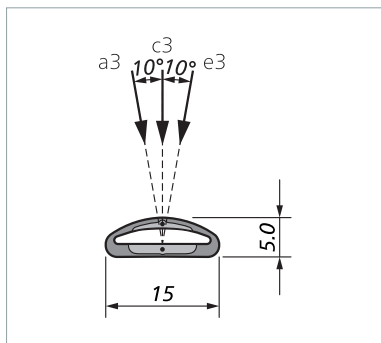
Physical resistance

See page 8

Chemical resistance

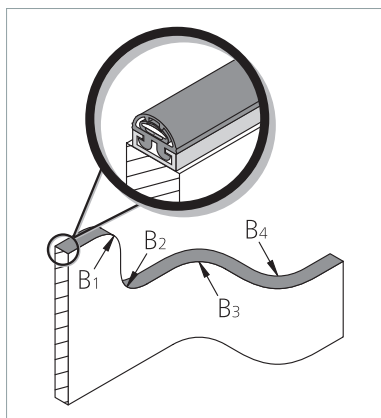
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7500674 SE 1 15 TPE

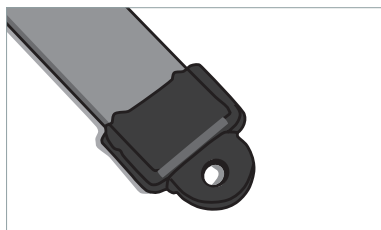


Dimensional tolerances
according to ISO 3302 E2/L2

Bend radii:
SE 1 15 TPE in GP 22-1 NBR



With pull-in tab:



Switching characteristics at $v_{\text{test}} = 50 \text{ mm/min}$

	+23 °C	-25 °C	-40 °C
Actuation force (c3)			
Test piece (rod) Ø 20 mm	< 10 N	< 25 N	< 30 N
Test piece (cylinder) Ø 80 mm	< 35 N	< 90 N	< 100 N
Test specimen length	1.0 m		
Actuation distance (c3)			
Test piece (cylinder) Ø 80 mm	< 3.0 mm		
Actuation angle (a3 to e3)			
Test piece (cylinder) Ø 80 mm	±10°		

Safety classifications

ISO 13849-1: B _{10D}	2 × 10 ⁶
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Mechanical operating conditions

Sensor length (min./max.)	100 mm / 50 m
Cable length (min./max.)	200 mm / 100 m
Tensile load (max.)	
Cable	50 N
Pull-in tab	30 N
Bend radii, minimum	
B ₁ / B ₂ / B ₃ / B ₄	300 / 350 / 300 / 300 mm
Tested in rubber profile	GP 22-1 NBR
IEC 60529: degree of protection	IP67
EN 50125-1:	
Air temperature class	TX
Class of altitude range	AX, max. 2000 m NHN
Max. humidity at	100%
Max. temperature change	3 K/s
Operating temperature	-40 to +80 °C
Short-term (max. 10 min)	-40 to +100 °C
Weight (without cable)	42 g/m

Electrical operating conditions

When sensor is not actuated	
Terminal resistance (±1%)	1k2, 8k2, others on request
Nominal output (max.)	250 mW
When sensor is actuated	Test piece (cylinder) Ø 80 mm, F = 150 N
Contact transition resistance	< 400 ohms
Switching current (min. / max.)	DC 1 mA / DC 10 mA
More than one sensor	Max. 5 in series
Connection cable	1004733

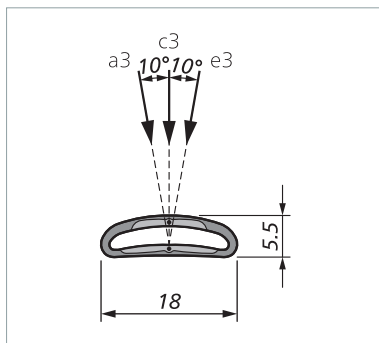
Physical resistance

See page 8

Chemical resistance

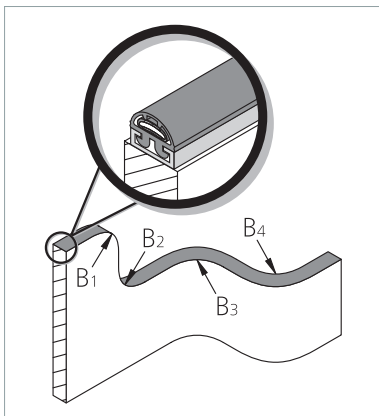
See page 8

7500270 SE 1 18 TPE

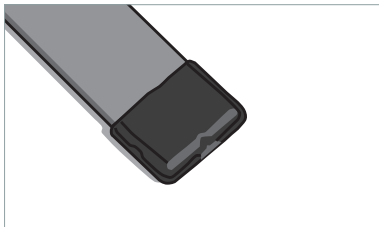


Dimensional tolerances
according to ISO 3302 E2/L2

Bend radii:
SE 1 18 TPE in GP 22-1 NBR



Without pull-in tab:



Switching characteristics at $v_{\text{test}} = 50 \text{ mm/min}$

	+23 °C	-25 °C	-40 °C
Actuation force (c3)			
Test piece (rod) Ø 20 mm	< 15 N	< 30 N	< 35 N
Test piece (cylinder) Ø 80 mm	< 55 N	< 100 N	< 120 N
Test specimen length	1.0 m		
Actuation distance (c3)			
Test piece (cylinder) Ø 80 mm	< 3.0 mm		
Actuation angle (a3 to e3)			
Test piece (cylinder) Ø 80 mm	±10°		

Safety classifications

ISO 13849-1: B _{10D}	2× 10 ⁶
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Mechanical operating conditions

Sensor length (min./max.)	100 mm / 50 m
Cable length (min./max.)	200 mm / 100 m
Tensile load (max.)	
Cable	50 N
Pull-in tab (optional)	30 N
Bend radii, minimum	
B ₁ / B ₂ / B ₃ / B ₄	300 / 350 / 300 / 300 mm
Tested in rubber profile	GP 22-1 NBR
IEC 60529: degree of protection	IP67
EN 50125-1:	
Air temperature class	TX
Class of altitude range	AX, max. 2000 m NHN
Max. humidity at	100%
Max. temperature change	3 K/s
Operating temperature	-40 to +80 °C
Short-term (max. 10 min)	-40 to +100 °C
Weight (without cable)	52 g/m

Electrical operating conditions

When sensor is not actuated	
Terminal resistance (±1%)	1k2, 8k2, others on request
Nominal output (max.)	250 mW
When sensor is actuated	Test piece (cylinder) Ø 80 mm, F = 150 N
Contact transition resistance	< 400 ohms
Switching current (min. / max.)	DC 1 mA / DC 10 mA
More than one sensor	Max. 5 in series
Connection cable	1004733

Physical resistance

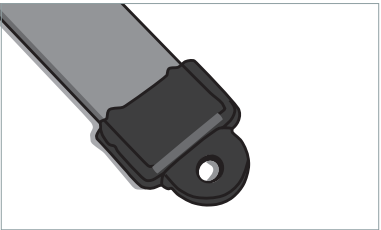
See page 8

Chemical resistance

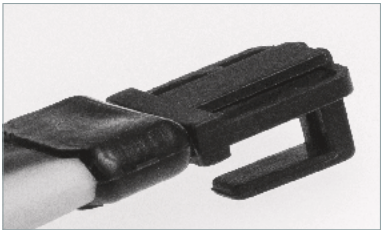
See page 8

Options for SE 1 18 TPE

With pull-in tab:



With snap hook:



Physical resistance

	TPE
VW PV 3930: weathering 2800 h "Florida" EKS ... TPE SE ... TPE	No cracks —

Chemical resistance

To an extent, the product is resistant to normal chemical influences over an exposure time of 24 hours.

Explanation of symbols:

- + = resistant
- ± = resistant to a certain extent
- = not resistant

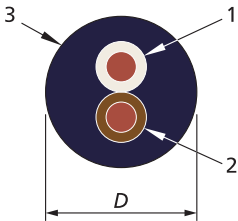
	TPE
Cyanoacrylate adhesive	+
Greases	±
Graffiti remover	±
Skin cream	±
Isopropanol	±
Neutral cleaner	+
Alkaline cleaner	+
Hydrochloric acid cleaner	+
Phosphoric acid cleaner	+
Plastic cleaners	+
Soap solution	+
Saline solution 5%	+
Spirit (ethyl alcohol)	±
Talc	+

All tests were carried out at room temperature (+23 °C).

Cables

1003288 Chainflex CF900 2× 0.25 mm²

Labeling: igus chainflex CF900.14.442 2x0,25mm² 300/500V CE M/Y/
WW RoHS-II conform Mayser GmbH&Co.KG 1003288

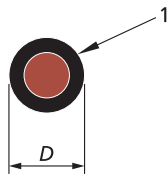


Cable structure	
Conductors, Nos. 1 and 2	CU wire, tinned, wire EN 13602 – Cu-ETP1
Nominal cross-section	0.25 mm ²
Insulation No. 1	White, TPE
No. 2	Brown, TPE
Sheath No. 3	Steel blue (RAL 5011), TPE
Outer diameter D	4.0 ±0.2 mm
Weight	18 g/m
Electrical operating conditions	
Conductor resistance at 20 °C	≤ 78 ohms/km
Operating voltage (max.)	DC 60 V
Test voltage	–
Mechanical operating conditions	
Bend radii (min.)	
Fixed installation	28 mm (6.8× D)
Moving / free installation	–
Drag chain	
Cycles: min. 1× 10 ⁶	28 mm (6.8× D)
Operating temperature (3000 h)	–40 to +105 °C
Physical resistance	
UN/ECE R118 Paragraph 6.2.6	
Flame propagation	–
2011/65/EU: RoHS	Complies
Chemical resistance	
ISO 4892-2: UV resistance (500 h)	Passed
ISO 6722-1: ozone resistance	
100 pphm, 65 °C, 192 h	Passed
ISO 6722-1: media resistance	
Test method 2	Passed

for	EKS ... TPE			SE ... TPE	
	002	026	030	1 15	1 18
suitable	●		●	●	●

1004681 Single-core wire 1× 0.35 mm²

Labeling: LEONI

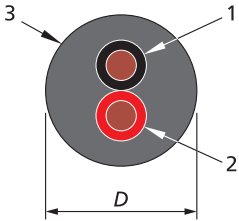


Cable structure	
Conductor, No. 1	CU wire, plain, wire EN 13602 – Cu-ETP1
Nominal cross-section	0.35 mm ²
Insulation No. 1	Black, TPS
Outer diameter D	1.4 ±0.1 mm
Weight	5 g/m
Electrical operating conditions	
Conductor resistance at 20 °C	≤ 52 ohms/km
Operating voltage (max.)	–
Test voltage	–
Mechanical operating conditions	
Bend radii (min.)	
Single	7 mm (5× D)
Multiple (< 100×)	21 mm (15× D)
Drag chain R 10	
Cycles: min. 1× 10 ⁶	–
Operating temperature (3000 h)	–40 to +125 °C
Physical resistance	
UN/ECE R118 Paragraph 6.2.6	
Flame propagation	Passed
2011/65/EU: RoHS	–
Chemical resistance	
ISO 4892-2: UV resistance (500 h)	Passed
ISO 6722-1: ozone resistance	
100 pphm, 65 °C, 192 h	Passed
ISO 6722-1: media resistance	
Test method 2	Passed

for	EKS ... TPE			SE ... TPE	
	002	026	030	1 15	1 18
suitable		●			

1004733 Multi-core cable 2x 0.22 mm²

Labeling: MAYSER GmbH & Co.KG 1004733 2x0.22 mm²



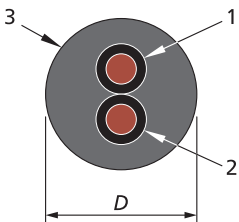
Cable structure	
Conductors, Nos. 1 and 2	CU wire, tinned, wire EN 13602 – Cu-ETP1
Nominal cross-section	0.22 mm ²
Insulation No. 1	Black, PVC
No. 2	Red, PVC
Sheath No. 3	Black, TPS
Outer diameter D	3.7 ±0.15 mm
Weight	15 g/m
Electrical operating conditions	
Conductor resistance at 20 °C	≤ 87 ohms/km
Operating voltage (max.)	DC 60 V
Test voltage	–
Mechanical operating conditions	
Bend radii (min.)	
Single	19 mm (5× D)
Multiple	56 mm (15× D)
Drag chain R 10	
Cycles: min. 1× 10 ⁶	–
Operating temperature (3000 h)	–40 to +90 °C
Physical resistance	
UN/ECE R118 Paragraph 6.2.6	
Flame propagation	–
2011/65/EU: RoHS	Complies
Chemical resistance	
ISO 4892-2: UV resistance (500 h)	–
ISO 6722-1: ozone resistance	
100 pphm, 65 °C, 192 h	–
ISO 6722-1: media resistance	
Test method 2	–

	EKS ... TPE			SE ... TPE	
for	002	026	030	1 15	1 18
suitable	●		●	●	●

1004821 Multi-core cable 2x 0.35 mm²

EPDM

Labeling: MAYSER RailFR 1004821 DIN EN 45545-2 2x0,35 QMM



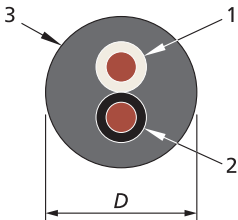
Cable structure	
Conductors, Nos. 1 and 2	CU wire, tinned, wire EN 13602 – Cu-ETP1
Nominal cross-section	0.35 mm ²
Insulation No. 1	Black, EPDM
No. 2	Black, EPDM
Sheath No. 3	Black, EPDM
Outer diameter D	4.4 ±0.2 mm
Weight	32 g/m
Electrical operating conditions	
Conductor resistance at 20 °C	≤ 58 ohms/km
Operating voltage (max.)	–
Test voltage	2 kV
Mechanical operating conditions	
Bend radii (min.)	
Fixed installation	–
Moving / free installation	–
Drag chain R 10	–
Cycles: min. 1× 10 ⁶	–
Operating temperature (3000 h)	–40 to +120 °C
Physical resistance	
UN/ECE R118 Paragraph 6.2.6	
Flame propagation	–
2011/65/EU: RoHS	Complies
Chemical resistance	
ISO 4892-2: UV resistance (500 h)	–
ISO 6722-1: ozone resistance	
100 pphm, 65 °C, 192 h	–
ISO 6722-1: media resistance	
Test method 2	–

for	EKS ... TPE			SE ... TPE	
	002	026	030	1 15	1 18
suitable	●		●	●	●

1005052 Multi-core cable 2x 0.35 mm²

TPV

Labeling: MAYSER 1005052 2x0.35 mm²



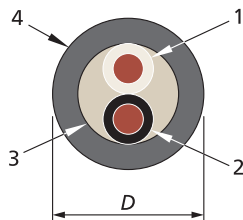
Cable structure	
Conductors, Nos. 1 and 2	CU wire, plain, wire EN 13602 – Cu-ETP1
Nominal cross-section	0.35 mm ²
Insulation No. 1	White, PVC
No. 2	Black, PVC
Sheath No. 3	Black, TPV
Outer diameter D	4.15 ±0.1 mm
Weight	20 g/m
Electrical operating conditions	
Conductor resistance at 20 °C	≤ 52 ohms/km
Operating voltage (max.)	DC 60 V
Test voltage	–
Mechanical operating conditions	
Bend radii (min.)	
Single	21 mm (5× D)
Multiple (< 100×)	63 mm (15× D)
Drag chain R 10	
Cycles: min. 1× 10 ⁶	–
Operating temperature (3000 h)	–40 to +90 °C
Physical resistance	
UN/ECE R118 Paragraph 6.2.6	
Flame propagation	–
2011/65/EU: RoHS	Complies
Chemical resistance	
ISO 4892-2: UV resistance (500 h)	–
ISO 6722-1: ozone resistance	
100 pphm, 65 °C, 192 h	–
ISO 6722-1: media resistance	
Test method 2	–

for	EKS ... TPE			SE ... TPE	
	002	026	030	1 15	1 18
suitable	●		●	●	●

1005437 Multi-core cable 2x 0.35 mm²

TPV

Labeling: MAYSER 2x0.35 mm² Foil 1005437

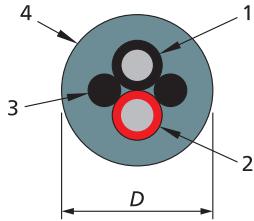


Cable structure	
Conductors, Nos. 1 and 2	CU wire, plain, wire EN 13602 – Cu-ETP1
Nominal cross-section	0.35 mm ²
Insulation No. 1	White, TPS
No. 2	Black, TPS
Shielding No. 3	Nature, PP
Sheath No. 4	Black, TPV
Outer diameter D	4.2 ±0.15 mm
Weight	20 g/m
Electrical operating conditions	
Conductor resistance at 20 °C	≤ 52 ohms/km
Operating voltage (max.)	DC 60 V
Test voltage	–
Mechanical operating conditions	
Bend radii (min.)	
Single	21 mm (5× D)
Multiple (< 100×)	63 mm (15× D)
Drag chain R 10	
Cycles: min. 1× 10 ⁶	–
Operating temperature (3000 h)	–40 to +90 °C
Physical resistance	
UN/ECE R118 Paragraph 6.2.6	
Flame propagation	–
2011/65/EU: RoHS	–
Chemical resistance	
ISO 4892-2: UV resistance (500 h)	–
ISO 6722-1: ozone resistance	
100 pphm, 65 °C, 192 h	–
ISO 6722-1: media resistance	
Test method 2	–

for	EKS ... TPE			SE ... TPE	
	002	026	030	1 15	1 18
suitable		●			

1005975 Mayser RailFR® 2× 0.25 mm²

Labeling: MAYSER RailFR 1005975 2x0,25 mm²



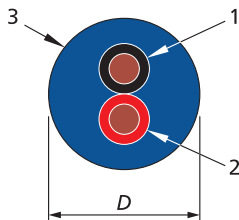
Cable structure	
Conductors, Nos. 1 and 2	CU wire, tinned, wire EN 13602 – Cu-ETP1
Nominal cross-section	0.25 mm ²
Insulation No. 1	Black, TPE
No. 2	Red, TPE
Dummy wire No. 3	Black, TPE
Sheath No. 4	Squirrel grey (RAL 7000), TPE
Outer diameter D	3.8 ±0.2 mm
Weight	22 g/m
Electrical operating conditions	
Conductor resistance at 20 °C	≤ 80 ohms/km
Operating voltage (max.)	DC 48 V
Test voltage	1.5 kV
Mechanical operating conditions	
Bend radii (min.)	
Fixed installation	19 mm (5× D)
Moving / free installation	39 mm (10× D)
Drag chain R 40	
Cycles: min. 1× 10 ⁶	41 mm (10.5× D)
Operating temperature (3000 h)	–40 to +90 °C
Physical resistance	
EN 45545-2: suitable for	
Hazard level	HL3
Set of requirements	R15 and R16
HD 605: artificial weathering	
60 W/m ² , 720 h, 38 °C, 65% rel. humidity, cycle: 18/102 min	No cracks
IEC 60754-1	Halogen-free
2011/65/EU: RoHS	Complies
Chemical resistance	
Hydrolysis	Very good
Acids	Good
EN 50264-1 (EM 104):	
Oil	Very good
Fuels	Very good
EN 50396 paragraph 8.1.3:	
Ozone resistance 72 h, 40 °C, 55% rel. humidity	No cracks

for	EKS ... TPE			SE ... TPE	
	002	026	030	1 15	1 18
suitable	●		●	●	●

1006180 Mayser RoadFR® 2× 0.25 mm²

(suitable for drag chains)

Labeling: igus chainflex CF900.15.293 CE M +++ Mayser RoadFR 2x0,25 mm²

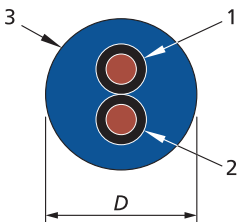


Cable structure	
Conductors, Nos. 1 and 2	CU wire, wire EN 13602 – Cu-ETP1
Nominal cross-section	0.25 mm ²
Insulation No. 1	Black, TPS
No. 2	Red, TPS
Sheath No. 3	Signal blue (RAL 5005), TPV
Outer diameter D	3.7 ±0.1 mm
Weight	20 g/m
Electrical operating conditions	
Conductor resistance at 20 °C	≤ 78 ohms/km
Operating voltage (max.)	DC 60 V
Test voltage	2 kV
Mechanical operating conditions	
Bend radii (min.)	
Fixed installation	23 mm (6× D)
Moving / free installation	30 mm (8× D)
Drag chain R 10	
Cycles: min. 1× 10 ⁶	48 mm (12.5× D)
Operating temperature (3000 h)	–40 to +90 °C
Physical resistance	
UN/ECE R118 Paragraph 6.2.6	
Flame propagation	Passed
2011/65/EU: RoHS	Complies
Chemical resistance	
ISO 4892-2: UV resistance (500 h)	Passed
ISO 6722-1: ozone resistance	
100 pphm, 65 °C, 192 h	Passed
ISO 6722-1: media resistance	
Test method 2	Passed

for	EKS ... TPE			SE ... TPE	
	002	026	030	1 15	1 18
suitable	●		●	●	●

1006491 Mayser RoadFR® 2× 0.35 mm²

Labeling: URus AWM Style 21439 300V 105°C FT2 Mayser RoadFR
1006491 ECE R118 2x0,35 mm²

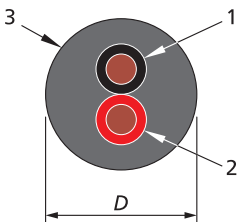


Cable structure	
Conductors, Nos. 1 and 2	CU wire, plain, wire EN 13602 – Cu-ETP1
Nominal cross-section	0.35 mm ²
Insulation No. 1	Black, PVC
No. 2	Black, PVC
Sheath No. 3	Signal blue (RAL 5005), TPS
Outer diameter D	4.1 ±0.2 mm
Weight	22 g/m
Electrical operating conditions	
Conductor resistance at 20 °C	≤ 52 ohms/km
Operating voltage (max.)	DC 60 V
Test voltage	–
Mechanical operating conditions	
Bend radii (min.)	
Fixed installation	25 mm (6× D)
Moving / free installation	33 mm (8× D)
Drag chain R 10	
Cycles: min. 1× 10 ⁶	–
Operating temperature (3000 h)	–40 to +105 °C
Physical resistance	
UN/ECE R118 Paragraph 6.2.6	
Flame propagation	Passed
2011/65/EU: RoHS	Complies
Chemical resistance	
ISO 4892-2: UV resistance (500 h)	Passed
ISO 6722-1: ozone resistance	
100 pphm, 65 °C, 192 h	Passed
ISO 6722-1: media resistance	
Test method 2	Passed

for	EKS ... TPE			SE ... TPE	
	002	026	030	1 15	1 18
suitable	●		●	●	●

1007144 Multi-core cable 2x 0.22 mm²

Labeling: cURus AWM Style 21439 300V 105°C FT2 I/II A/B Mayser Ro-adFR 1007144 ECE R118 2x0,22 mm²



Cable structure	
Conductors, Nos. 1 and 2	CU wire, tinned, wire EN 13602 – Cu-ETP1
Nominal cross-section	0.22 mm ²
Insulation No. 1	Black, PVC
No. 2	Red, PVC
Sheath No. 3	Black, TPS
Outer diameter D	3.7 ±0.1 mm
Weight	15 g/m
Electrical operating conditions	
Conductor resistance at 20 °C	≤ 87 ohms/km
Operating voltage (max.)	DC 60 V
Test voltage	–
Mechanical operating conditions	
Bend radii (min.)	
Fixed installation	19 mm (5× D)
Moving / free installation	30 mm (8× D)
Drag chain R 10	
Cycles: min. 1× 10 ⁶	–
Operating temperature (3000 h)	–40 to +105 °C
Physical resistance	
UN/ECE R118 Paragraph 6.2.6	
Flame propagation	–
2011/65/EU: RoHS	Complies
Chemical resistance	
ISO 4892-2: UV resistance (500 h)	Passed
ISO 6722-1: ozone resistance	
100 pphm, 65 °C, 192 h	Passed
ISO 6722-1: media resistance	
Test method 2	Passed

for	EKS ... TPE			SE ... TPE	
	002	026	030	1 15	1 18
suitable	●		●	●	●