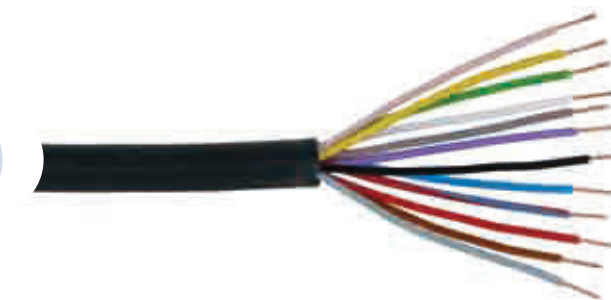


PUR shielded ☉ | Control line | S370®

Flexible, silicone- and halogen-free control cable with high mechanical strength. The cable is chemicals, hydrolysis-, and microbes-resistant. The drag-chain application is possible at a bending radius of minimum 10xd. Due to its weld-field immunity, the cable is very well suited for the flexible application in robotics, machine-tool, and metal-cutting production. The cables meet the UL and CSA (UL10493/20549; cULus) requirements. Very good EMC-features with shielded versions.

Features	<ul style="list-style-type: none"> flame-retardant VDE0482-332-2-2, DINEN/IEC 60332-2-2, UL/CSAFT2 seawater-resistant recyclable LABS-free RoHS-conform acids- and alkali resistance good ozone- and UV-resistance hydrolysis strength drag-chain- and torsion capability good weld-field immunity halogen-free DIN EN 50267-2-1, IEC 60754-1, VDE0482-267-2-1 silicone-free oil resistance 								
Temperature range	<table border="1"> <tr><td>operation</td><td>-30°C...+90°C</td></tr> <tr><td>installation</td><td>-40°C...+90°C</td></tr> <tr><td>drag-chain</td><td>-25°C...+60°C</td></tr> </table>	operation	-30°C...+90°C	installation	-40°C...+90°C	drag-chain	-25°C...+60°C		
operation	-30°C...+90°C								
installation	-40°C...+90°C								
drag-chain	-25°C...+60°C								
Bending radius	<table border="1"> <tr><td>repeated</td><td>10 x Ø-cable</td></tr> <tr><td>single</td><td>5 x Ø-cable</td></tr> </table>	repeated	10 x Ø-cable	single	5 x Ø-cable				
repeated	10 x Ø-cable								
single	5 x Ø-cable								
Rated voltage	≤ 300V								
Color outer-jacket	black similar RAL9005								
Wire-structure	VDE0295 EN/IEC60228, Class5								
	<table border="1"> <tr><td>conductor</td><td>Cu-ETP1, bare DINEN 13602</td></tr> <tr><td>insulation</td><td>PP, halogen-free</td></tr> <tr><td>stranding</td><td>for drag-chain and torsion-application</td></tr> <tr><td>jacket</td><td>PUR, halogen-free</td></tr> </table>	conductor	Cu-ETP1, bare DINEN 13602	insulation	PP, halogen-free	stranding	for drag-chain and torsion-application	jacket	PUR, halogen-free
conductor	Cu-ETP1, bare DINEN 13602								
insulation	PP, halogen-free								
stranding	for drag-chain and torsion-application								
jacket	PUR, halogen-free								

	Wire	Type	Wire-structure	Wire color	Ø - Jacket	S370® 100m cable Order-No.
M8x1	3	LiF9YH11YH 3x0.34mm²	42x Ø0.10mm	BN BU BK	4.8mm	8058488
	4	LiF9YH11YH 4x0.34mm²	42x Ø0.10mm	BN WH BU BK	5.1mm	8047431
M12x1	3	LiF9YH11YH 3x0.34mm²	42x Ø0.10mm	BN BU BK	4.8mm	8058488
	4	LiF9YH11YH 4x0.34mm²	42x Ø0.10mm	BN WH BU BK	5.1mm	8047431
	5	LiF9YH11YH 5x0.34mm²	42x Ø0.10mm	BN WH BU BK GY	5.6mm	8046513
	8	LiF9YH11YH 8x0.25mm²	32x Ø0.10mm	WH BN GN YE GY PK BU RD	6.3mm	8048963
	12	LiF9YH11YH 12x0.14mm²	18x Ø0.10mm	BN BU WH GN PK YE BK GY RD VT GY/PK RD/BU	6.0mm	8058489

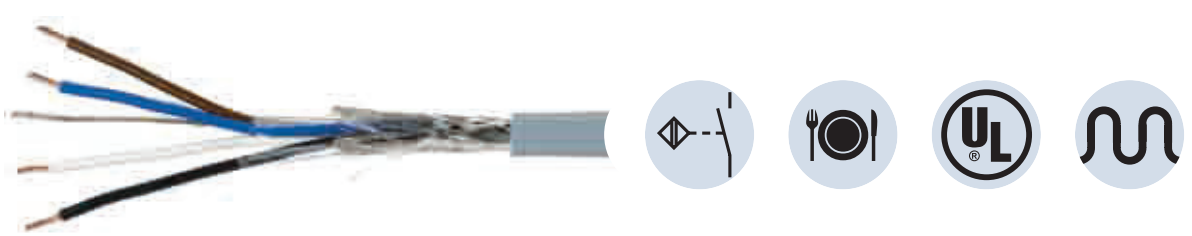


S370®/S370GY® | Control line | PUR

Flexible, silicone- and halogen-free control line with high mechanical strength. The cable is chemicals, hydrolysis-, and microbes-resistant. The drag-chain application is possible at a bending radius of minimum 10xd. Due to its weld-field immunity, the cable is very well suited for the flexible application in robotics, machine-tool, and metal-cutting production. The cables meet the UL and CSA (UL 10493/20549; cULus) requirements.

Features	<ul style="list-style-type: none"> flame-retardant VDE0482-332-2-2, DIN EN/IEC 60332-2-2, UL/CSAFT2 seawater-resistant recyclable LABS-free RoHS-conform acids- and alkali resistance good ozone- and UV-resistance hydrolysis strength drag-chain- and torsion capability good weld-field immunity halogen-free DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1 silicone-free oil resistance 								
Temperature range	<table border="1"> <tr><td>operation</td><td>-30°C...+90°C</td></tr> <tr><td>installation</td><td>-40°C...+90°C</td></tr> <tr><td>drag-chain</td><td>-25°C...+60°C</td></tr> </table>	operation	-30°C...+90°C	installation	-40°C...+90°C	drag-chain	-25°C...+60°C		
operation	-30°C...+90°C								
installation	-40°C...+90°C								
drag-chain	-25°C...+60°C								
Bending radius	<table border="1"> <tr><td>repeated</td><td>10 x Ø-cable</td></tr> <tr><td>single</td><td>5 x Ø-cable</td></tr> </table>	repeated	10 x Ø-cable	single	5 x Ø-cable				
repeated	10 x Ø-cable								
single	5 x Ø-cable								
Rated voltage	≤ 300V								
Color outer-jacket	S370: black, similar RAL9005 S370GY: grey, similar RAL7040								
Wire-structure	VDE0295 EN/IEC60228, Class5								
	<table border="1"> <tr><td>conductor</td><td>Cu-ETP1, bare DINEN 13602</td></tr> <tr><td>insulation</td><td>PP, halogen-free</td></tr> <tr><td>stranding</td><td>for drag-chain and torsion-application</td></tr> <tr><td>jacket</td><td>PUR, halogen-free</td></tr> </table>	conductor	Cu-ETP1, bare DINEN 13602	insulation	PP, halogen-free	stranding	for drag-chain and torsion-application	jacket	PUR, halogen-free
conductor	Cu-ETP1, bare DINEN 13602								
insulation	PP, halogen-free								
stranding	for drag-chain and torsion-application								
jacket	PUR, halogen-free								

	Wire	Type	Wire-structure	Wire color	Ø - Jacket	S370® 100m cable Order-No.	S370GY® 100m cable Order-No.
M8x1	3	LiF9YH11YH 3x0.34mm²	42x Ø0.10mm	BN BU BK	4.3mm	8058490	8058493
	4	LiF9YH11YH 4x0.34mm²	42x Ø0.10mm	BN WH BU BK	4.7mm	8058491	-
M12x1	5	LiF9YH11YH 5x0.25mm²	14x Ø0.15mm	BN WH BU BK GY	4.5mm	8058492	-
	3	LiF9YH11YH 3x0.34mm²	42x Ø0.10mm	BN BU BK	4.3mm	8046603	8058494
	4	LiF9YH11YH 4x0.34mm²	42x Ø0.10mm	BN WH BU BK	4.7mm	8045519	8058495
	4+PE	LiF9YH11YH 5x0.34mm²	42x Ø0.10mm	BN WH BU BK GN/YE	5.2mm	8048725	8058496
	5	LiF9YH11YH 5x0.34mm²	42x Ø0.10mm	BN WH BU BK GY	5.2mm	8047757	-
8	8	LiF9YH11YH 8x0.25mm²	32x Ø0.10mm	WH BN GN YE GY PK BU RD	5.9mm	8055605	-
	12	LiF9YH11YH 12x0.14mm²	18x Ø0.10mm	BN BU WH GN PK YE BK GY RD VT GY/PK RD/BU	5.6mm	8052916	-

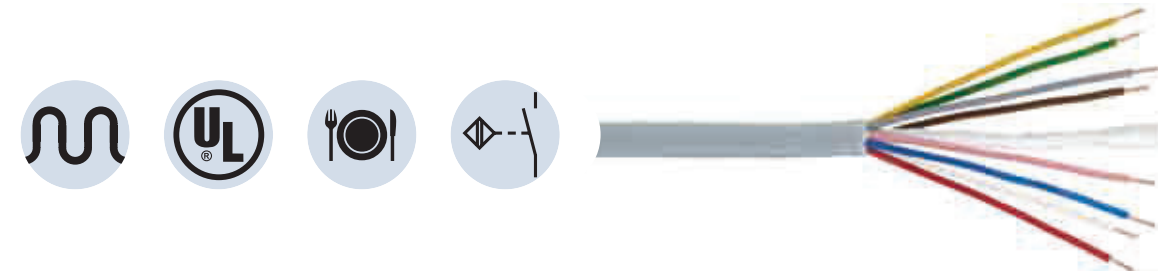


PVC shielded ☉ | Control line | P00/P01[®]

PVC-cable for measurement and control-, and sensor technology. Suitable for applications in dry areas on packaging machines, assembly- and conveyor technology. High flexibility with unstressed movement (conditional drag-chain application possible). Predestined for applications in food- and beverage industry. P01-cables meet the UL and CSA (UL1729/2464; cULus) requirements. Very good EMC-features with shielded versions.

Features	<ul style="list-style-type: none"> seawater-resistant recyclable LABS-free RoHS-conform acids- and alkali resistance ozone- and UV-resistance hydrolysis strength 								
Temperature range	<table border="1"> <tr> <td>operation</td> <td>0°C...+80°C</td> </tr> <tr> <td>installation</td> <td>-25°C...+80°C</td> </tr> </table>	operation	0°C...+80°C	installation	-25°C...+80°C				
operation	0°C...+80°C								
installation	-25°C...+80°C								
Bending radius	<table border="1"> <tr> <td>repeated</td> <td>10x Ø-cable</td> </tr> <tr> <td>single</td> <td>5x Ø-cable</td> </tr> </table>	repeated	10x Ø-cable	single	5x Ø-cable				
repeated	10x Ø-cable								
single	5x Ø-cable								
Rated voltage	≤300V								
Color outer-jacket	window gray similar RAL7040								
Wire-structure	VDE0295 EN/IEC60228, Class5								
	<table border="1"> <tr> <td>conductor</td> <td>Cu-ETP1, bare DINEN13602</td> </tr> <tr> <td>insulation</td> <td>PVC VDE 0207-363, Section 3</td> </tr> <tr> <td>stranding</td> <td>tight layer stranding for a flexible application</td> </tr> <tr> <td>jacket</td> <td>PVC VDE 0207-363, Section 4-1</td> </tr> </table>	conductor	Cu-ETP1, bare DINEN13602	insulation	PVC VDE 0207-363, Section 3	stranding	tight layer stranding for a flexible application	jacket	PVC VDE 0207-363, Section 4-1
conductor	Cu-ETP1, bare DINEN13602								
insulation	PVC VDE 0207-363, Section 3								
stranding	tight layer stranding for a flexible application								
jacket	PVC VDE 0207-363, Section 4-1								

Wire	Type	Wire-structure	Wire color	P00☉		P01 [®]		
				Ø - Jacket	100m cable Order-No.	Ø - Mantel	100m cable Order-No.	
M8x1	3	LiYY-OB 3x0.25mm ²	14x Ø0.15mm	BN BU BK	4.6mm	8058497	4.8mm	8058506
	4	LiYY-OB 4x0.25mm ²	14x Ø0.15mm	BN WH BU BK	4.9mm	8058498	5.1mm	8058507
M12x1	3	LiYY-OB 3x0.34mm ²	19x Ø0.15mm	BN BU BK	4.8mm	8058502	5.0mm	8058508
	4	LiYY-OB 4x0.34mm ²	19x Ø0.15mm	BN WH BU BK	5.1mm	8058503	5.3mm	8058509
	5	LiYY-OB 5x0.34mm ²	19x Ø0.15mm	BN WH BU BK GY	5.5mm	8058504	5.9mm	8058510
	8	LiYY-OB 8x0.25mm ²	14x Ø0.15mm	WH BN GN YE GY PK BU RD	6.7mm	8042487	6.7mm	8058511
12	LiYY-OB 12x0.14mm ²	18x Ø0.10mm	BN BU WH GN PK YE BK G Y	RD VT GY/PK RD/BU	6.6mm	8058505	6.6mm	8058512

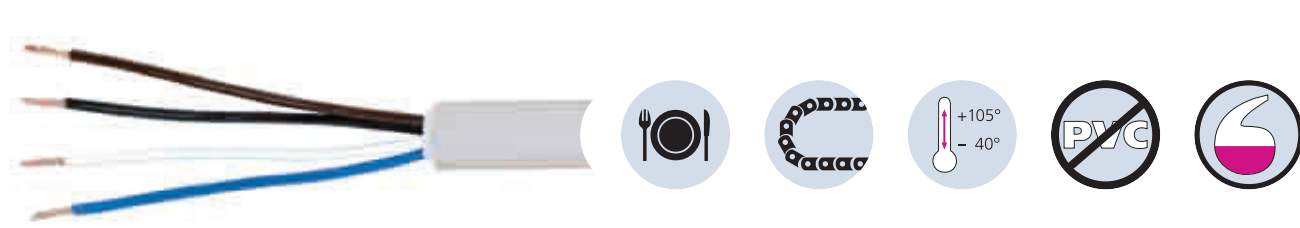


P00/P01[®] | Control line | PVC

PVC-cable for measurement and control-, and sensor technology. Suitable for applications in dry areas on packaging machines, assembly- and conveyor technology. High flexibility with unstressed movement (conditional drag-chain application possible). Predestined for applications in food- and beverage industry. P01-cables meet the UL and CSA (UL1729/2464; cULus) requirements.

Features	<ul style="list-style-type: none"> seawater-resistant recyclable LABS-free RoHS-conform acids- and alkali resistance ozone- and UV-resistance 								
Temperature range	<table border="1"> <tr> <td>operation</td> <td>0°C...+80°C</td> </tr> <tr> <td>installation</td> <td>-25°C...+80°C</td> </tr> </table>	operation	0°C...+80°C	installation	-25°C...+80°C				
operation	0°C...+80°C								
installation	-25°C...+80°C								
Bending radius	<table border="1"> <tr> <td>repeated</td> <td>10x Ø-cable</td> </tr> <tr> <td>single</td> <td>5x Ø-cable</td> </tr> </table>	repeated	10x Ø-cable	single	5x Ø-cable				
repeated	10x Ø-cable								
single	5x Ø-cable								
Rated voltage	≤300V								
Color outer-jacket	window gray similar RAL7040								
Wire-structure	VDE0295 EN/IEC60228, Class5								
	<table border="1"> <tr> <td>conductor</td> <td>Cu-ETP1 bare DINEN13602</td> </tr> <tr> <td>insulation</td> <td>PVC VDE0207-363, Section 3</td> </tr> <tr> <td>stranding</td> <td>tight layer stranding for a flexible application</td> </tr> <tr> <td>jacket</td> <td>PVC VDE0207-363, Section 4-1</td> </tr> </table>	conductor	Cu-ETP1 bare DINEN13602	insulation	PVC VDE0207-363, Section 3	stranding	tight layer stranding for a flexible application	jacket	PVC VDE0207-363, Section 4-1
conductor	Cu-ETP1 bare DINEN13602								
insulation	PVC VDE0207-363, Section 3								
stranding	tight layer stranding for a flexible application								
jacket	PVC VDE0207-363, Section 4-1								

Wire	Type	Wire-structure	Wire color	P00		P01 [®]		
				Ø - Jacket	100m cable Order-No.	Ø - Mantel	100m cable Order-No.	
M8x1	3	LiYY-OB 3x0.25mm ²	14x Ø0.15mm	BN BU BK	4.0mm	8058513	4.3mm	8058521
	4	LiYY-OB 4x0.25mm ²	14x Ø0.15mm	BN WH BU BK	4.2mm	8056855	4.7mm	8058522
M12x1	5	LiYY-OB 5x0.25mm ²	14x Ø0.15mm	BN WH BU BK GY	4.5mm	8058514	-	-
	3	LiYY-OB 3x0.34mm ²	19x Ø0.15mm	BN BU BK	4.2mm	8058515	4.6mm	8058523
4	LiYY-OB 4x0.34mm ²	19x Ø0.15mm	BN WH BU BK	4.5mm	8057030	4.9mm	8058524	
	4+PE	LiYY-OB 4+1x0.34mm ²	19x Ø0.15mm	BN WH BU BK GN/YE	4.9mm	8058516	5.3mm	8058525
5	LiYY-OB 5x0.34mm ²	19x Ø0.15mm	BN WH BU BK GY	4.9mm	8058517	5.3mm	8058526	
8	LiYY-OB 8x0.25mm ²	14x Ø0.15mm	WH BN GN YE GY PK BU RD	5.7mm	8058519	6.2mm	8058527	
12	LiYY-OB 12x0.14mm ²	18x Ø0.10mm	BN BU WH GN PK YE BK G Y	RD VT GY/PK RD/BU	5.6mm	8058520	6.1mm	8058528



TPE | F&B-Control line_detergent-resistant | S3930

TPE jacketed cable with elevated position-proof wires with an insulation of special polyester. Resistant to all common acidic- and alkali- cleaning- and disinfection agents. PVC-free plastics prevent discoloration and hardening by detergents. Predestined for applications in the food- and beverage industry. Due to the materials used, it is also suitable for applications in machine- and plant construction. High stability, good drag-chain- and torsion capability.

Features	<ul style="list-style-type: none"> ■ seawater-resistant ■ recyclable ■ LABS-free ■ RoHs-conform ■ excellent acids- and alkali resistance ■ verified resistance against »P3-topactive P3-topax« cleaning- and disinfection agents ■ good ozone- and UV-resistance ■ hydrolysis strength DINEN 60068-2-78 ■ drag-chain capable ≥ 4 million cycles ■ torsion capable up to ±180°/m ■ halogen-free DINEN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1 ■ cold flexible ■ enhanced thermal stability 								
Temperature range	<table border="1"> <tr><td>operation</td><td>-25°C... +105°C</td></tr> <tr><td>installation</td><td>-40°C... +105°C</td></tr> <tr><td>drag-chain</td><td>-25°C... +60°C</td></tr> </table>	operation	-25°C... +105°C	installation	-40°C... +105°C	drag-chain	-25°C... +60°C		
operation	-25°C... +105°C								
installation	-40°C... +105°C								
drag-chain	-25°C... +60°C								
Bending radius	<table border="1"> <tr><td>repeated</td><td>10 x Ø-cable</td></tr> <tr><td>single</td><td>5 x Ø-cable</td></tr> </table>	repeated	10 x Ø-cable	single	5 x Ø-cable				
repeated	10 x Ø-cable								
single	5 x Ø-cable								
Rated voltage	≤ 240V _{ac}								
Color outer-jacket	light grey similar RAL7035								
Wire-structure	VDE 0295 EN/IEC 60228, Class 5								
	<table border="1"> <tr><td>conductor</td><td>Cu-ETP1 blank DINEN 13602</td></tr> <tr><td>insulation</td><td>TPE, halogen-free</td></tr> <tr><td>stranding</td><td>tight stranding</td></tr> <tr><td>jacket</td><td>TPE, halogen-free</td></tr> </table>	conductor	Cu-ETP1 blank DINEN 13602	insulation	TPE, halogen-free	stranding	tight stranding	jacket	TPE, halogen-free
conductor	Cu-ETP1 blank DINEN 13602								
insulation	TPE, halogen-free								
stranding	tight stranding								
jacket	TPE, halogen-free								

							S3930
							100m cable Order-No.:
Wire	Type	Wire-structure	Wire color	Ø - Jacket			
M8x1 M12x1	4	LiF12Y14Y-OB 4x0,34mm ²	42xØ0,10mm	BN WH BU BK	4.6 mm	8058694	



S2430 | Control line_high temperature-proof | PTFE

The thermal resistance of this high-temperature cable extends from -190°C to +260°C. Due to its fully fluorinated jacket and wire insulation, the cable is perfectly suited for applications in high-frequency cables, as control cable in critical temperature areas, and in the computer-, and aviation industry. In addition, it stands out through a very good chemical strength, as well as its ozone- and weather resistance.

Features	<ul style="list-style-type: none"> ■ non flammable ■ low smoke ■ seawater-resistant ■ LABS-free ■ RoHs-conform ■ excellent chemicals resistance ■ very good ozone- and UV-resistance ■ hydrolysis strength ■ drag-chain capability ■ flexible at high and low temperatures 						
Temperature range	-190°C... +260°C						
Bending radius	<table border="1"> <tr><td>repeated</td><td>10 x Ø-cable</td></tr> <tr><td>single</td><td>5 x Ø-cable</td></tr> </table>	repeated	10 x Ø-cable	single	5 x Ø-cable		
repeated	10 x Ø-cable						
single	5 x Ø-cable						
Rated voltage	≤ 250V						
Color outer-jacket	signal white similar RAL9003						
Wire-structure	<table border="1"> <tr><td>conductor</td><td>Cu-ET, nickel-plated</td></tr> <tr><td>insulation</td><td>PTFE (5Y)</td></tr> <tr><td>jacket</td><td>PTFE (5Y)</td></tr> </table>	conductor	Cu-ET, nickel-plated	insulation	PTFE (5Y)	jacket	PTFE (5Y)
conductor	Cu-ET, nickel-plated						
insulation	PTFE (5Y)						
jacket	PTFE (5Y)						

							S2430
							100m cable Order-No.:
Wire	Type	Wire-structure	Wire color	Ø - Jacket			
M8x1 M12x1	5	Li5Y5Y-OB AWG22	7x0.254 mm	BN WH BU BK GY	3.8 mm	8037921	
	8	Li5Y5Y-OB AWG24	19x0.127 mm	WH BN GN YE GY PK BU RD	4.7 mm	8047617	
	12	Li5Y5Y-OB AWG26	19x0.102 mm	BN BU WH GN PK YE BK GY RD VT GY/PK RD/BU	4.3 mm	8058529	



PUR | Bus cable_Industrial Ethernet | S3500[®]

Shielded PUR-cable for safe and industrial-suited data transmission in automation- and fieldbus technology. The cable meets the UL-Style 20963 and the Cat7 (electrical properties according to EN50288-4-2) requirements. Materials and a constructive setup allow for increased mechanical stresses (abrasion, bending, vibrations etc.) of the cable.

Features	<ul style="list-style-type: none"> ■ flame-retardant DIN EN/IEC 60332-1-2 ■ no flame propagation ■ no corrosiveness of combustion gases ■ smoke visibility IEC 61034 ■ seawater-resistant ■ recyclable ■ LABS-free ■ RoHs-conform ■ good acids- and alkali resistance ■ good microbes- and hydrolysis strength ■ good UV-resistant ■ high flexibility ■ halogen-free IEC 60754-1 ■ oil resistance EN60811-2-1
Temperature range	operating temp.. -40°C...+80°C installation temp.. -20°C...+60°C
Bending radius	repeated 10 x Ø-cable single 5 x Ø-cable
Rated voltage	30V UL rating
Color outer-jacket	green similar RAL6018
Wire-structure	conductor Cu, bare soft insulation PE02Y, foamed shielding Cu, tinned ~70% optical coverage jacket PUR11Y

	Wire	Type	Wire-structure	Wire color	Ø - Jacket	S3500 [®] 100m cable Order-No.
M12x1 RJ45	8	Li02YSC11Y 4x2x0.14mm ²	7xØ0.16mm 26AWG	WH(OG) OG; WH(GN) GN WH(BN) BN; WH(BU) BU	6.4mm	8053361

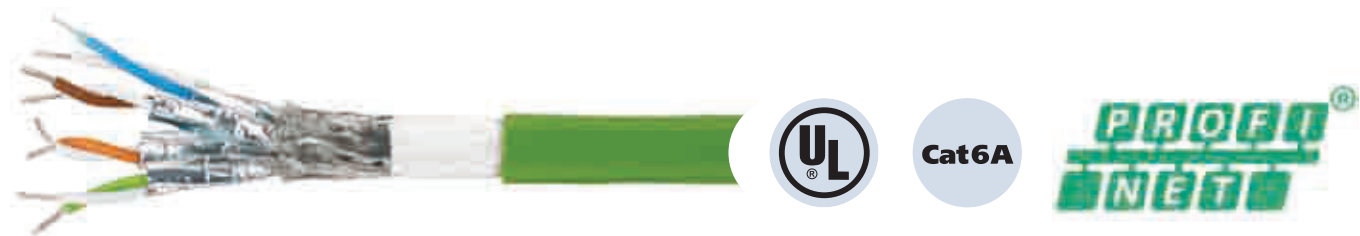


S2171[®] | Bus cable_Industrial Ethernet | PUR

Shielded PUR-cable for safe and industrial-suited data transmission in automation- and fieldbus technology. The cable is CMX-verified or meets the Cat5e (electrical properties of EN 50288-2-1) requirements. Materials and a constructive setup allow for increased mechanical stresses (abrasion, bending, vibrations etc.) of the cable. A drag-chain application with up to 3 million bending cycles is possible and risk-free.

Features	<ul style="list-style-type: none"> ■ flame-retardant DIN EN/IEC 60332-1-2 ■ seawater-resistant ■ recyclable ■ LABS-free ■ RoHs-conform ■ good acids- and alkali resistance ■ good microbes- and hydrolysis strength ■ good ozone- and UV-resistance ■ high flexibility, drag-chain capable ≤3million cycles ■ halogen-free IEC 60754-1 ■ oil resistance EN60811-2-1
Temperature range	operating temp.. -40°C...+70°C installation temp.. -20°C...+60°C storage temp. -50°C...+70°C
Bending radius	repeated 7,5 x Ø-cable single 5 x Ø-cable
Rated voltage	600V UL rating
Color outer-jacket	green similar RAL6018
Wire-structure	conductor Cu-ETP-A...-B DINEN13602 insulation PE2Y, halogen-free DIN EN 50290-2-23 stranding Tight layer stranding for a flexible application shielding Cu, tinned ~85% optical coverage Polyester foil, alu-laminated (100% coverage) jacket inside: thermoplastisches Copolymer (FRNC) outside: PUR11Y

	Wire	Type	Wire-structure	Wire color	Ø - Jacket	S2171 [®] 100m cable Order-No.
M12x1	4	Li2YH(St)C11Y 4x0.34mm ²	7x0.25mm AWG22	YE OG WH BU	6.5mm	8036284



PVC | Bus cable_Industrial Ethernet | S3900[®]

Shielded PVC-cable for safe and industrial-suited data transmission in automation- and fieldbus technology. The cable meets UL-Style 2461 (80°C/300V)- and the Cat6A requirements for fieldbuses. Electrical values are according to IEC 61156-5. Materials and a constructive setup allow for mechanical stresses (abrasion, bending, vibrations etc.) of the cable.

Features	<ul style="list-style-type: none"> ■ flame-retardant IEC 60332-1-2 ■ seawater-resistant ■ recyclable ■ LABS-free ■ RoHS-conform ■ acids- and alkali resistance ■ microbes- and hydrolysis strength ■ UV-resistant ■ limited oil resistance
Temperature range	-40°C...+80°C
Bending radius	repeated 8x Ø-cable single 4x Ø-cable
Rated voltage	300V UL rating
Color outer-jacket	green similar RAL6018
Wire-structure	conductor Cu, tinned insulation PE02Y, foamed shielding Cu tinned ~85% optical coverage Polyester foil, alu-laminated (100% coverage) jacket PVCY

	Wire	Type	Wire-structure	Wire color	Ø - Jacket	S3900 [®] 100m cable Order-No.
M12x1	8	Li02Y(St)CY 4x2xAWG23	AWG23	WH(OG) OG; WH(GN) GN WH(BN) BN; WH(BU) BU	8.6mm	8055779

Sercos
the automation bus



Cat5e



S3800[®] | Bus cable_Industrial Ethernet | PUR

Shielded PUR-cable for safe and industrial-suited data transmission in automation- and fieldbus technology. The cable is CMX-verified or meets the Cat5e (electrical properties of EN50288-2-1) requirements. Materials and a constructive setup allow for increased mechanical stresses (abrasion, bending, vibrations etc.) of the cable. A drag-chain application with up to 3million bending cycles is possible and risk-free.

Features	<ul style="list-style-type: none"> ■ flame-retardant IEC 60332-1-2 ■ seawater-resistant ■ recyclable ■ LABS-free ■ RoHS-conform ■ good acids- and alkali resistance ■ good microbes- and hydrolysis strength ■ good ozone- and UV-resistance ■ high flexibility, drag-chain capable ≤ 3 million cycles ■ halogen-free ■ oil resistance EN 60811-2-1
Temperature range	operating temp.. -40°C...+80°C installation temp.. -40°C...+80°C storage temp. -40°C...+80°C
Bending radius	repeated 8x Ø-cable single 4x Ø-cable
Rated voltage	300V UL rating
Color outer-jacket	red similar RAL3020
Wire-structure	conductor Cu, tinned insulation PE 2Y, halogen-free stranding Tight layer stranding for a flexible application shielding Cu tinned, ~85% optical coverage jacket inside: FRNC-compound outside: PUR11Y

	Wire	Type	Wire-structure	Wire color	Ø - Jacket	S3800 [®] 100m cable Order-No.
M12x1 RJ45	4	2YH(ST)C11Y 2x2xAWG22	AWG22	OG WH BU YE	6.5mm	8055782



PVC | Bus cable_Industrial Ethernet | S3242[®]

Shielded PVC Ethernet-cable for safe and industrial-suited data transmission in automation- and fieldbus technology. Real-time requirements based on IEC 61158 are viable. The cable meets the UL-Style2464 (80°/300V) and the Cat5e (electrical properties according to EN50288-2-2) requirements. Materials and a constructive setup are suitable for average mechanical stresses (abrasion, bending, vibrations etc.).

Features	<ul style="list-style-type: none"> ■ flame-retardant IEC60332-1-2 ■ seawater-resistant ■ recyclable ■ LABS-free ■ RoHS-conform ■ good acids- and alkali resistance ■ good ozone- and UV-resistance ■ high flexibility ■ oil resistance
Temperature range	-40°C...+70°C
Bending radius	repeated 7x Ø-cable single 5x Ø-cable
Rated voltage	300V UL rating
Color outer-jacket	green similar RAL6018
Wire-structure	conductor Cu, bare soft insulation PE2Y, halogen-free DIN EN 50290-2-23 (VDE 0819) shielding Cu, tinned ~80 % optical coverage Polyester foil, alu-laminated (100% coverage) jacket PVC

	Wire	Type	Wire-structure	Wire color	Ø - Jacket	S3242 [®] 100m cable Order-No.
M8x1	4	Li2Y-(ST)CY 2x2x0.14mm ²	7x Ø0.16mm AWG26	BU OG WH/BU WH/OG	4.7 mm	8055780



S3400[®] | Bus cable_Industrial Ethernet | PUR

Shielded PUR Ethernet-cable for safe and industrial-suited data transmission in automation- and fieldbus technology. Real-time requirements according to IEC 61158 are viable. The cable meets the UL-Style 20963 (80°/30V)- and the Cat5 (electrical properties according to EN50288-2-2) requirements. Materials and a constructive setup for increased mechanical stresses (abrasion, bending, vibrations etc.) of the cable. Drag-chain operations/with torsion are possible. High tensile strength through incorporated Kevlar-strands.

Features	<ul style="list-style-type: none"> ■ seawater-resistant ■ recyclable ■ LABS-free ■ RoHS-conform ■ good acids- and alkali resistance ■ good microbes- and hydrolysis strength ■ good ozone- and UV-resistance ■ high flexibility, drag-chain capable ■ halogen-free ■ oil resistance
Temperature range	-40°C...+80°C
Bending radius	repeated 7,5x Ø-cable single 4x Ø-cable
Rated voltage	30V UL rating
Color outer-jacket	green similar RAL6018
Wire-structure	conductor Cu-ETP-A DIN EN 13602 insulation PP DIN EN 50290-2-25 (HD 624.5) stranding Tight layer stranding for a flexible application shielding Cu tinned ~85 % optical coverage Polyester foil, alu-laminated (100% coverage) jacket PUR F45052-F5100 (similar DIN VDE0282)

	Wire	Type	Wire-structure	Wire color	Ø - Jacket	S3400 [®] 100m cable Order-No.
M8x1 RJ45	4	Li9YC(ST)11Y 4x1x0.15mm ²	19x Ø0.10mm AWG26	BU OG WH/BU WH/OG	4.8 mm	8055896

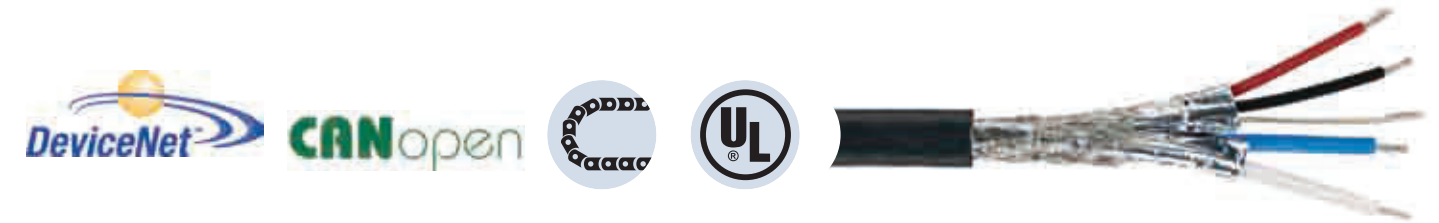


PUR | Bus cable_PROFIBUS | S1800[®]

UL- and CSA-listed shielded PUR-cable for automation technology (control of sensors and actuators). Suited for common variants of PROFIBUS DP and PROFIBUS PA. Setup and materials used allow for applications under harsh ambient conditions (abrasion, bending, vibrations etc.). Drag-chain application is possible and trouble-free (>1 million bending cycles).

Features	<ul style="list-style-type: none"> flame-retardant DIN EN 60332-2-2, IEC 60332-2-2, CSA FT-2, VDE 0482-332-2-2 halogen-free DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1 life cycle >20.000h seawater-resistant recyclable LABS-free RoHs-conform good acids- and alkali resistance good microbes- and hydrolysis strength good ozone- and UV-resistance high flexibility, drag-chain capable >1 million cycles good oil resistance 100% shielding because of Polyester foil 										
Temperature range	<table border="1"> <tr><td>operation</td><td>-25°C...+80°C</td></tr> <tr><td>installation</td><td>-50°C...+80°C</td></tr> <tr><td>drag-chain</td><td>-25°C...+60°C</td></tr> </table>	operation	-25°C...+80°C	installation	-50°C...+80°C	drag-chain	-25°C...+60°C				
operation	-25°C...+80°C										
installation	-50°C...+80°C										
drag-chain	-25°C...+60°C										
Bending radius	<table border="1"> <tr><td>repeated</td><td>10 x Ø-cable</td></tr> <tr><td>single</td><td>5 x Ø-cable</td></tr> </table>	repeated	10 x Ø-cable	single	5 x Ø-cable						
repeated	10 x Ø-cable										
single	5 x Ø-cable										
Rated voltage	300V										
Color outer-jacket	violet similar RAL4001										
Wire-structure	VDE0295 EN/IEC60228, Class5										
	<table border="1"> <tr><td>conductor</td><td>Cu-ETP1 DIN EN 13602</td></tr> <tr><td>insulation</td><td>PE, foamed</td></tr> <tr><td>shielding foil</td><td>Al-PT, 100% optical coverage</td></tr> <tr><td>shielding braid</td><td>Cu-ETP1, tinned DIN EN 13602</td></tr> <tr><td>jacket</td><td>PUR</td></tr> </table>	conductor	Cu-ETP1 DIN EN 13602	insulation	PE, foamed	shielding foil	Al-PT, 100% optical coverage	shielding braid	Cu-ETP1, tinned DIN EN 13602	jacket	PUR
conductor	Cu-ETP1 DIN EN 13602										
insulation	PE, foamed										
shielding foil	Al-PT, 100% optical coverage										
shielding braid	Cu-ETP1, tinned DIN EN 13602										
jacket	PUR										

	Wire	Type	Wire-structure	Wire color	Ø - Jacket	S1800 [®] 100m cable Order-No:
M12x1	2	Li02YS-(ST)CB11Y 1x(2x0.34mm ²)	19xØ0.15mm	BRD GN	7.6mm	8043857

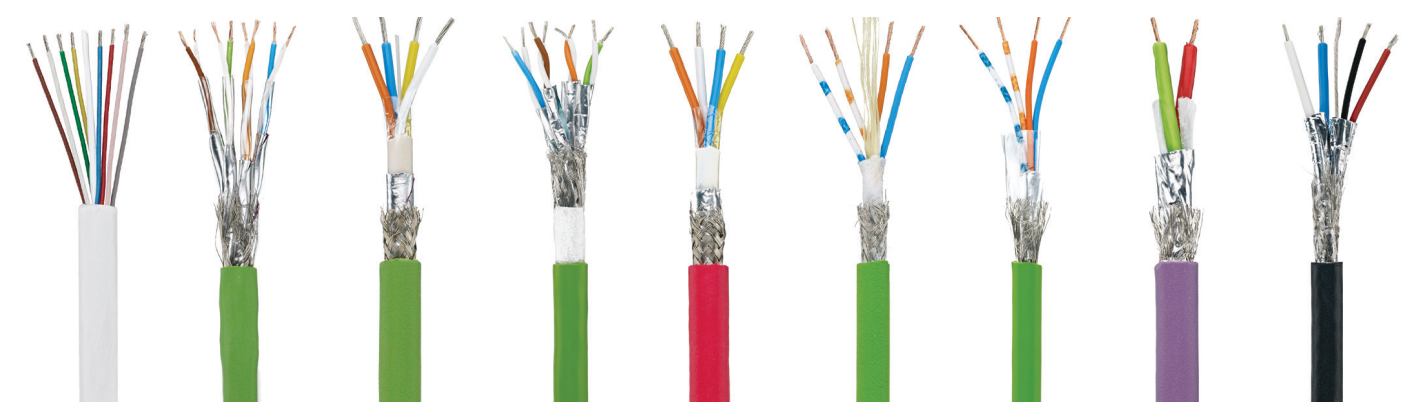
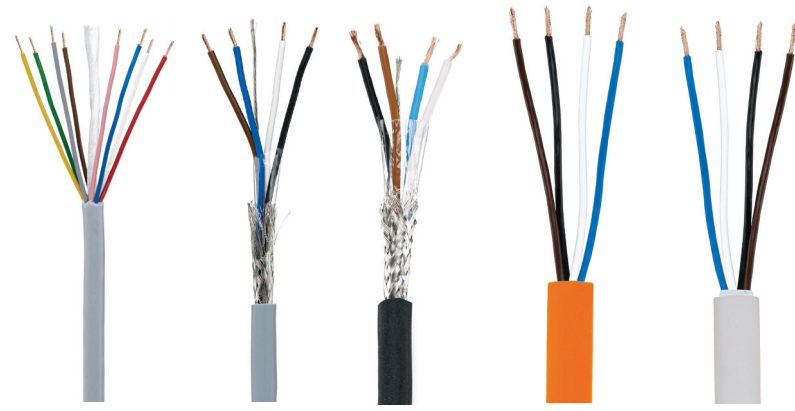


S2800[®] | Bus cable_CANopen/DeviceNet | PUR

UL- and CSA-listed shielded PUR-cable for automation technology. As a data transmitter, it supports CANopen as well as DeviceNet-based fieldbuses. High transmission rates enable transport of real-time data. Due to the constructive setup and the materials used, increased mechanical stresses (abrasion, bending, vibrations etc.) do not pose any restrictions to the application. Drag-chain application is possible (>1million bending cycles) and trouble-free.

Features	<ul style="list-style-type: none"> flame-retardant DIN EN 60332-1-2, IEC 60332-1-2, ULVW-1, CSA FT-1 halogen-free DIN EN 50267-2-1, IEC 60754-1, VDE0482-267-2-1 life cycle >20.000h seawater-resistant recyclable LABS-free RoHs-conform good acids- and alkali resistance good microbes- and hydrolysis strength good ozone- and UV-resistance high flexibility, drag-chain capable >1 million cycles good oil resistance 								
Temperature range	<table border="1"> <tr><td>operation</td><td>-25°C...+80°C</td></tr> <tr><td>installation</td><td>-50°C...+80°C</td></tr> <tr><td>drag-chain</td><td>-25°C...+60°C</td></tr> </table>	operation	-25°C...+80°C	installation	-50°C...+80°C	drag-chain	-25°C...+60°C		
operation	-25°C...+80°C								
installation	-50°C...+80°C								
drag-chain	-25°C...+60°C								
Bending radius	<table border="1"> <tr><td>repeated</td><td>10 x Ø-cable</td></tr> <tr><td>single</td><td>5 x Ø-cable</td></tr> </table>	repeated	10 x Ø-cable	single	5 x Ø-cable				
repeated	10 x Ø-cable								
single	5 x Ø-cable								
Rated voltage	≤ 300V								
Color outer-jacket	black similar RAL9005								
Wire-structure	<table border="1"> <tr><td>conductor</td><td>Cu-ETP1, tinned DIN EN 13602</td></tr> <tr><td>insulation</td><td>Signal-pair PE02Y, foamed Power-pair PE2Y</td></tr> <tr><td>stranding</td><td>Tight layer stranding for a flexible application</td></tr> <tr><td>jacket</td><td>PUR</td></tr> </table>	conductor	Cu-ETP1, tinned DIN EN 13602	insulation	Signal-pair PE02Y, foamed Power-pair PE2Y	stranding	Tight layer stranding for a flexible application	jacket	PUR
conductor	Cu-ETP1, tinned DIN EN 13602								
insulation	Signal-pair PE02Y, foamed Power-pair PE2Y								
stranding	Tight layer stranding for a flexible application								
jacket	PUR								

	Wire	Type	Wire-structure	Wire color	Ø - Jacket	S2800 [®] 100m cable Order-No:
M12x1	4	LiV02YS(St)-CB-11Y (2x0.25mm ²)+(2x0.34mm ²)	19xØ0.13mm (0.25mm ²) 19xØ0.15mm (0.34mm ²)	RD BK WH BU	6.7mm	8047939



	PVC P00	PVC P01®	PUR S370® S370GY	PUR S7400 robotic	TPE S3930 F&B
Machinery and equipment manufacturing	★★★★	★★★★	★★★★	★★★★	★
Automotive industry	★★	★★	★★★★	★★★★	★★★★
Robotics	★	★	★★★★	★★★★	★★★★
Food and beverage industry	★★★★	★★★★	★	★	★★★★
Packaging and filling systems	★★★★	★★★★	★	★	★★★★
Building installations	★★	★★	★★	★★	★★
Wind power plants	★★	★★	★★★★	★★★★	★★
flame-retardant	★★★★	★★★★	★★★★	★★★★	★★★★
oil resistance	★★	★★	★★★★	★★★★	★★
weldfield immunity	★	★	★★★★	★★★★	★
drag-chain capability	★	★	★★★★	★★★★	★★
acids- and alkali resistance	★	★	★	★	★★
seawater-resistant	★★	★★	★★	★★	★★★★
ozone- and UV-resistance	★	★	★★★★	★★★★	★★
hydrolysis strength	★★	★★	★★	★★	★★★★
microbes strength	★★	★★	★★	★★	★★★★
Bending strength (repeated)	10xØ	10xØ	10xØ	10xØ	10xØ
Bending strength (single)	5xØ	5xØ	5xØ	5xØ	5xØ
Temperature range (repeated)	0°C...+80°C	0°C...+80°C	-30°C...+90°C	-30°C...+90°C	-25°C...+105°C
Temperature range (single)	-25°C...+80°C	-25°C...+80°C	-40°C...+90°C	-40°C...+90°C	-40°C...+105°C
Shielding	optional	optional	optional	no	optional
ROHS	✓	✓	✓	✓	✓
UL and/or CSA		✓	✓	✓	
GOST	✓	✓	✓	✓	✓
ECOLAB	✓				✓
ESCHA Product line	AL BL SV FB NM Ventil	AL BL SV NM Ventil	AL BL SV NM Ventil	AL	FB
Catalogue page	204 205	204 205	202 203	201	206

PTFE S2430® HT	PUR Cat7 S3500® Ind. Ethernet	PUR Cat5e S2171® Profinet	PVC Cat6A S3900® Profinet	PUR Cat5e S3800® Sercos®	PVC Cat5e S3242® EtherCAT	PUR Cat5 S3400® EtherCAT	PUR S1800® PROFIBUS	PUR S2800® DeviceNet
★	★	★★	★	★	★	★	★★	★★
★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★
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10xØ	10xØ	7,5xØ	8xØ	8xØ	7xØ	7,5xØ	10xØ	10xØ
5xØ	5xØ	5xØ	4xØ	4xØ	5xØ	4xØ	5xØ	5xØ
k.A.	-40°C...+80°C	-40°C...+70°C	-40°C...+80°C	-40°C...+80°C	-40°C...+70°C	-40°C...+80°C	-25°C...+80°C	-25°C...+80°C
-190°C...+260°C							-50°C...+80°C	-50°C...+80°C
optional	yes	yes	yes	yes	yes	yes	yes	yes
✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓
					✓			
HT	IE	IE	IE	IE	IE	IE	PB	CD
207	208	209	210	211	212	213	214	215

All data in this matrix serve basic orientation. Our specialists will readily advise you on your specific application.
The cables listed here only describe the ESCHA Standard product range. Ask us if your requested cable quality is not included.