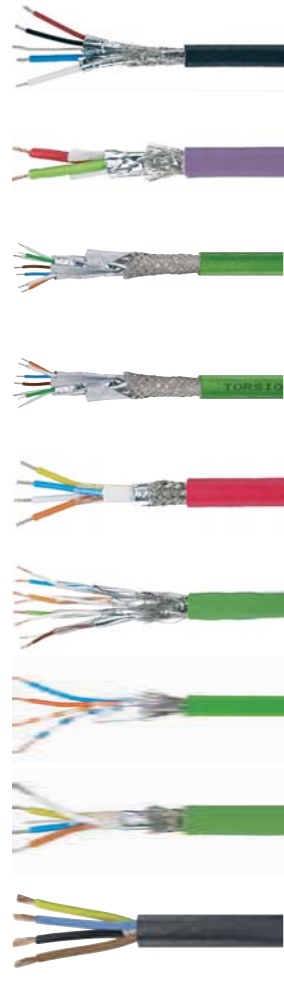


	PVC P00	PVC P01®	PUR S370® S370GY®	PUR S7400® robotic	TPE S3930 F&B	P1FE S2430 HT
Applications	Machinery-, equipment manufacturing Automotive industry Robotics Food and beverage industry Packaging and filling systems Building installations Wind power plants	**** ** * **** **** **	**** **** **** * * **	**** **** **** * * **	* **** **** **** **** **	* ** ** ** ** **
Resistance	Flame-retardant Oil resistance Weldfield immunity Drag-chain capability Torsion capability Acids- and alkali resistance Seawater-resistant Ozone- and UV-resistance Hydrolysis strength Microbes strength	**** ** * * * * ** ** ** ** **	**** **** **** **** **** **** ** ** ** ** **	**** **** **** **** **** **** ** ** ** ** **	**** ** * ** ** ** ** ** ** ** **	**** **** ** ** ** ** **** **** **** **** ****
Features	Bending strength (repeated) Bending strength (single) Temperature range (repeated) Temperature range (single) Shielding	10xØ 5xØ 0°C...+80°C -25°C...+80°C optional	10xØ 5xØ -30°C...+90°C -40°C...+90°C optional	10xØ 5xØ -30°C...+90°C -40°C...+90°C no	10xØ 5xØ -25°C...+105°C -40°C...+105°C optional	10xØ 5xØ k. A. -190°C...+260°C optional
Features	ROHS UL and/or CSA GOST ECOLAB	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓
ESCHA Product line	AL BL SV FB NM NM V	AL BL SV NM V	AL BL SV NM V	AL FB	FB HT	HT
Catalogue page	241 242	241 242	239 240	238	243	244



	PUR S5015 POWER	PUR S2171® Profinet	PUR S3400® EtherCAT	PUR S3500® Ind. Ethernet	PUR S3800® Sercos®	PUR S4030® Ind. Ethernet	PUR S4031® Ind. Ethernet	PUR S1800® PROFIBUS	PUR S2800® DeviceNet
Applications	Machinery-, equipment manufacturing Automotive industry Robotics Food and beverage industry Packaging and filling systems Building installations Wind power plants	** **** ** * * ****	* **** ** * * ****	* **** ** * * ****	* **** ** * * ****	** **** ** * * ****	** **** ** * * ****	** **** ** * * ****	** **** ** * * ****
Resistance	Flame-retardant Oil resistance Weldfield immunity Drag-chain capability Torsion capability Acids- and alkali resistance Seawater-resistant Ozone- and UV-resistance Hydrolysis strength Microbes strength	**** **** **** ** * ****	**** **** **** * * ****	**** **** **** * * ****	**** **** **** * * ****	**** **** **** * * ****	**** **** **** * * ****	**** **** **** * * ****	**** **** **** * * ****
Features	Bending strength (repeated) Bending strength (single) Temperature range (repeated) Temperature range (single) Shielding	7.5xØ 5xØ -40°C...+70°C -40°C...+80°C no	7.5xØ 4xØ -40°C...+80°C -40°C...+80°C yes	10xØ 5xØ -40°C...+80°C -40°C...+80°C yes	8xØ 4xØ -40°C...+80°C -40°C...+80°C yes	15xØ 8xØ -30°C...+70°C -40°C...+80°C yes	15xØ 8xØ -30°C...+70°C -40°C...+80°C yes	10xØ 5xØ -25°C...+80°C -50°C...+80°C yes	10xØ 5xØ -25°C...+80°C -50°C...+80°C yes
Features	ROHS UL and/or CSA GOST ECOLAB	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓
ESCHA Product line	S5015:PS S5025:PT	IE	IE	IE	IE	IE	IE	FB	CD
Catalogue page	253	245	246	247	248	249	250	251	252



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

- flame-retardant | VDE0482-332-2-2, DIN EN/IEC 60332-2-2, UL/CSA FT2
- 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

- operating -30°C...+90°C
- fixed installation -40°C...+90°C
- drag-chain -25°C...+60°C

Bending radius

- repeated 10x Ø-cable
- single 5x Ø-cable
- ≤ 300V

Rated voltage

Color outer-jacket

Wire-structure

- S370: black, similar RAL9005 | S370GY: grey, similar RAL 7040
- VDE 0295 | EN/IEC 60228, Class 5
- Cu-ETP1, bare | DIN EN 13602
- PP, halogen-free
- for drag-chain and torsion-application
- PUR, halogen-free

Wire	Type	Wire-structure	Wire color	Ø - Jacket	S370® 100% cable item-No.	S370GY® 100% cable item-No.
M8x1	3	LF9YH11YH 3x0.34mm ²	BN BU BK	4.3mm	8058490	8058493
	4	LF9YH11YH 4x0.34mm ²	BN WH BU BK	4.7mm	8058491	-
	5	LF9YH11YH 5x0.25mm ²	BN WH BU BK GY	4.5mm	8058492	-
M12x1	3	LF9YH11YH 3x0.34mm ²	BN BU BK	4.3mm	8046603	8058494
	4	LF9YH11YH 4x0.34mm ²	BN WH BU BK	4.7mm	8045519	8058495
	4+PE	LF9YH11YH 5x0.34mm ²	BN WH BU BK GN/YE	5.2mm	8048725	8058496
	5	LF9YH11YH 5x0.34mm ²	BN WH BU BK GY	5.2mm	8047757	-
	8	LF9YH11YH 8x0.25mm ²	WH BN GN YE GY PK BU RD	5.9mm	8055605	-
	12	LF9YH11YH 12x0.14mm ²	BN BU WH GN PK YE BK GY	5.6mm	8052916	-

RD | VT | GY/PK | RD/BU



PUR | Control line | S7400® robotic

Flexible, silicone- and halogen free control cable with high mechanical strength. Due to its outstanding properties in drag-chain adaption, torsion-resistance and weld-field immunity, it is very well suited for the flexible applications in robotics, handling- and assembly technology as well as machine tools. The cable meets the UL and CSA (UL10493/20549; cULus) requirements.

Features

- flame-retardant | VDE 0482-332-2-2, DIN EN/IEC 60332-2-2, UL/CSA FT2
- 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

- operating -30°C...+90°C
- fixed installation -40°C...+90°C
- drag-chain -25°C...+60°C

Bending radius

- repeated 10x Ø-cable
- single 5x Ø-cable
- ≤ 300V

Rated voltage

Color outer-jacket

Wire-structure

- orange | similar RAL 2003
- VDE 0295 | EN/IEC 60228, Class 5
- Cu-ETP1, bare | DIN EN 13602
- PP, halogen-free
- for drag-chain and torsion-application
- PUR, halogen-free

Wire	Type	Wire-structure	Wire color	Ø - Jacket	S7400® 100% cable item-No.
M8x1	3	LF9Y11YFHY 3x0.25mm ²	BN BU BK	4.6mm	8058484
	3	LF9Y11YFHY 3x0.34mm ²	BN BU BK	4.8mm	8058485
	4	LF9Y11YFHY 4x0.34mm ²	BN WH BU BK	5.2mm	8057309
	4+PE	LF9Y11YFHY 5x0.34mm ²	BN WH BU BK GN/YE	5.6mm	8058487



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 (UL 10493/20549; cULus) requirements. Very good EMC-features with shielded versions.

Features

- flame-retardant | VDE0482-352-2-2, DINEN/IEC 60332-2-2, ULCSAFT2
- 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 | DINEN50267-2-1, IEC 60754-1, VDE0482-267-2-1
- silicone-free
- oil resistance

Temperature range

- operating -30°C...+90°C
- fixed installation -40°C...+90°C
- drag-chain -25°C...+60°C

Bending radius

- repeated 10x Ø-cable
- single 5 x Ø-cable

Rated voltage

- ≤ 300V

Color outer-jacket

- black | similar RAL 9005

Wire-structure

- VDE0295 | EN/IEC60228, Class 5

conductor

- Cu-ETP1, bare | DINEN13602

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 Item-No.
M8x1	3	LIF9YH1YH 3x0.34mm ²	BN BU BK	4.8mm	8058488
	4	LIF9YH1YH 4x0.34mm ²	BN WH BU BK	5.1mm	8047431
M12x1	3	LIF9YH1YH 3x0.34mm ²	BN BU BK	4.8mm	8058488
	4	LIF9YH1YH 4x0.34mm ²	BN WH BU BK	5.1mm	8047431
	5	LIF9YH1YH 5x0.34mm ²	BN WH BU BK GY	5.6mm	8046513
	8	LIF9YH1YH 8x0.25mm ²	WH BN GN YE GY PK BU RD	6.3mm	8048963
	12	LIF9YH1YH 12x0.14mm ²	BN BU WH GN PK YE BK GY RD VT GY/PK RD/BU	6.0mm	8058489



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

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). Predesigned 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

- seawater-resistant
- recyclable
- LABS-free
- RoHS-conform
- acids- and alkali resistance
- ozone- and UV-resistance
- hydrolysis strength

Temperature range

- operating 0°C...+80°C
- fixed installation -25°C...+80°C
- repeated 10 x Ø-cable
- single 5 x Ø-cable

Bending radius

- ≤ 300V

Color outer-jacket

- window gray | similar RAL 7040

Wire-structure

- VDE0295 | EN/IEC60228, Class 5

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	Ø - Jacket	P00 [®] 100m cable Item-No.	P01 [®] 100m cable Item-No.
M8x1	3	L1YY-0B 3x0.25mm ²	BN BU BK	4.6mm	8058497	8058506
	4	L1YY-0B 4x0.25mm ²	BN WH BU BK	4.9mm	8058498	8058507
M12x1	3	L1YY-0B 3x0.34mm ²	BN BU BK	4.8mm	8058502	8058508
	4	L1YY-0B 4x0.34mm ²	BN WH BU BK	5.1mm	8058503	8058509
	5	L1YY-0B 5x0.34mm ²	BN WH BU BK GY	5.5mm	8058504	8058510
	8	L1YY-0B 8x0.25mm ²	WH BN GN YE GY PK BU RD	6.7mm	8042487	8058511
	12	L1YY-0B 12x0.14mm ²	BN BU WH GN PK YE BK GY RD VT GY/PK RD/BU	6.6mm	8058505	8058512

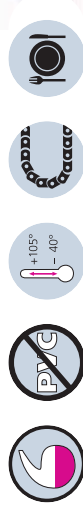


PVC | Control line | P00/P01®

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.

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

Wire	Type	Wire-structure	Wire color	P00 100m cable itemNo.	P01® 100m cable itemNo.
M8x1 3	LYY-08 3x0.25mm²	14 x Ø0.15mm	BN BU BK	8058513	8058521
4	LYY-08 4x0.25mm²	14 x Ø0.15mm	BN WH BU BK	8056855	8058522
5	LYY-08 5x0.25mm²	14 x Ø0.15mm	BN WH BU BK GY	8058514	-
M12x1 3	LYY-08 3x0.34mm²	19 x Ø0.15mm	BN BU BK	8058515	8058523
4	LYY-08 4x0.34mm²	19 x Ø0.15mm	BN WH BU BK	8057030	8058524
4+PE	LYY-08 4+1x0.34mm²	19 x Ø0.15mm	BN WH BU BK GN/VE	8058516	8058525
5	LYY-08 5x0.34mm²	19 x Ø0.15mm	BN WH BU BK GY	8058517	8058526
8	LYY-08 8x0.25mm²	14 x Ø0.15mm	WH BN GN YE GY PK BU RD	8058519	8058527
12	LYY-08 12x0.14mm²	18 x Ø0.10mm	BN BU WH GN PK YE BK GY RD VT GY/PK RD/BU	8058520	8058528



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

TPE jacketed cable with elevated position-proof wires with an insulation of special polyester. Resistant to all common acidic- and alkaline 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-topax« cleaning- and disinfection agents good ozone- and UV-resistance hydrolysis strength DINEN6068-2-78 drag-chain capable ≥ 4million cycles torsion capable up to ±180°/m halogen-free DINEN50267-2-1, IEC60754-1, VDE0482-267-2-1 cold flexible enhanced thermal stability
Temperature range	operating -25°C...+105°C fixed installation -40°C...+105°C drag-chain -25°C...+60°C
Bending radius	repeated 10 x Ø-cable single 5 x Ø-cable
Rated voltage	≤240VAC
Color outer-jacket	light grey similar RAL7035
Wire-structure	VDE0295 EN/IEC60228, Class 5 Cu-ETP1 blank DINEN13602 insulation TPE, halogen-free stranding tight stranding jacket TPE, halogen-free

Wire	Type	Wire-structure	Wire color
M8x1 M12x1 4	LIF12Y14Y08 4x0.34mm²	42 x Ø0.10mm	BN WH BU BK

S3930
100m cable
itemNo.
8058694



PTFE | Control line_high temperature-proof | S2430

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 ■ flexible at high and low temperatures 				
Temperature range	-190°C...+260°C				
Bending radius	repeated	10 x Ø-cable			
	single	5 x Ø-cable			
Rated voltage	≤250V				
Color outer-jacket	signal white similar RAL9003				
Wire-structure	conductor	Cu-ET, nickel-plated			
	insulation	PTFE (5Y)			
	jacket	PTFE (5Y)			

Wire	Type	Wire-structure	Wire color	Ø - Jacket	S2430 100m cable Item-No.
M8x1 M12x1	5	U15Y5Y-08 AWG22	BN WH BU BK GY	3.8mm	8037921
	8	U15Y5Y-08 AWG24	WH BN GN YE GY PK BU RD	4.7mm	8047617
	12	U15Y5Y-08 AWG26	BN BU WH GN PK YE BK GY	4.3mm	8058529
			RD VT GYPK RD/BU		



S2171® | Bus cable_Industrial Ethernet | PUR

Shielded PUR-cable for industrial applications. 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 3 million bending cycles is possible.

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 ≤3 million cycles ■ halogen-free IEC 60754-1 ■ oil resistance EN 60811-2-1 				
Temperature range	operating	-40°C...+70°C			
	fixed installation	-20°C...+60°C			
	storage	-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 DIN EN 13602			
	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 Item-No.
M12x1	4	U2 YH(S)C11Y 4x0.34mm ²	YE OG WH BU	6.5mm	8036284
			AWG22		



PUR | Bus cable_Industrial Ethernet | S 3400[®]

Shielded PUR Ethernet-cable for industrial applications. Fits to real-time requirements according to IEC 61158. 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**
- seawater-resistant
 - recyclable
 - UL-Style-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 Cu-ETP-A | DIN EN 13602

PP | DIN EN 50290-2-25 (HD624.5)

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 VDE 0282)

Wire	Type	Wire-structure	Wire color	Ø - Jacket	S3400 [®] 100m cable Item-No.
M8x1 RJ45	4	19xØ0.10mm	BU OG WH/BU WH/OG	4.8mm	8055896
					AWG 26



S 3500[®] | Bus cable_Industrial Ethernet | PUR

Shielded PUR-cable for industrial applications. 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**
- 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 | EN 60811-2-1

Temperature range operating -40°C...+80°C

fixed installation -20°C...+60°C

Bending radius repeated 10x Ø-cable

single 5x Ø-cable

Rated voltage 30V UL rating

Color outer-jacket green | similar RAL 6018

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 Item-No.
M12x1 RJ45	8	Li02Y5C11Y 4x2x0.14mm ²	WH(OG) OG; WH(GN) GN	6.4mm	8053361
					26AWG
					WH(BN) BN; WH(BU) BU



PUR | Bus cable_Industrial Ethernet | S 3800®

Shielded PUR-cable for industrial applications. 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.

- Features**
- 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 | EN60811-2-1

Temperature range

operating -40°C...+80°C
 fixed installation -40°C...+80°C
 storage -40°C...+80°C

Bending radius

repeated 8xØ-cable
 single 4xØ-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

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



S4030® | Bus cable_Industrial Ethernet | PUR

PROFINET 4x 2xAWG24/7 Type C is a torsion resistant-, high-speed-data cable of transmission category Cat 6A. The cable is halogen-free, flame-retardant, resistant to oil and resistant to abrasion due to PUR-outer jacket. It is excellently adapted for applications in industrial areas. Due to high-grade shielding, a high transmission safety of data in electromagnetically charged areas is provided. It is adapted for applications in dry- and wet areas.

- Features**
- flame-retardant | IEC 60332-1-2, VW-1 (UL1581)
 - recyclable
 - LABS-free
 - RoHS-conform
 - ozone- and UV-resistance
 - torsion capable
 - halogen-free | VDE0472-815
 - oil resistance | IEC 60811-2-1

Temperature range

operation -30°C...+70°C
 fixed installation -40°C...+80°C

Bending radius

repeated 15xØ-cable
 single 8xØ-cable

Rated voltage

torsion > 1 million cycles (±180°/m)
 max. 125V (20C°)

Color outer-jacket

green | similar RAL6018

Wire-structure

conductor Cu tin-plated, fine-wired
 insulation Foam-Skin Polyolefin
 stranding 2 wires as pair, 4 pairs core-inlet stranded
 shielding Copper braid, multi-wire tinned (degree of coverage ~ 85%)
 shielding (pairs) Plastic-laminated aluminum-foil
 jacket PUR

M12x1	Wire	Type	Wire-structure	Wire color	Ø - Jacket	S4030® 100m cable Item-No.
	8	U02Y(S)C11YHF 4x2xAWG24	7xØ0,20mm 0,22mm² (24AWG)	WH(BU) BU; WH(OG) OG; WH(GN) GN; WH(BN) BN	Ø 8.9mm	8058197



PUR | Bus cable_Industrial Ethernet | S4031®

PROFINET 4x2xAWG247 Type C is a highly flexible, high-speed data cable of transmission category Cat 6A. The cable is halogen-free, flame-retardant, resistant to oil, and resistant to abrasion due to PUR-outer jacket. It is excellently adapted for applications in industrial areas. The high-grade shielding provides for a high data transmission safety in electromagnetically charged surroundings. It is adapted for flexible applications, especially in drag-chains or on permanently movable machine parts in dry and wet areas.

Features

- flame-retardant | IEC 60332-1-2, VW-1 (UL1581)
- recyclable
- LABS-free
- RoHS-conform
- ozone- and UV-resistance
- high flexibility, drag-chain capable
- halogen-free | VDE0472-815
- oil resistance | IEC60811-2-1

Temperature range -30°C...+70°C

fixed installation -40°C...+80°C

repeated 15xØ-cable

single 8xØ-cable

drag-chain >2.5 million cycles (v_{max}=3m/s | a_{max}=3m/s²)

Rated voltage max. 125V (20C°)

Color outer-jacket green | similar RAL6018

Wire-structure Cu tin-plated, fine-wired

insulation Foam-Skin Polyolefin

stranding 2 wires as pair, 4 pairs core-inlet stranded

shielding Copper braid, multi-wire tinned (degree of coverage ~ 85%)

shielding (pairs) Plastic-laminated aluminum-foil

jacket PUR

Wire	Type	Wire-structure	Wire color	Ø - Jacket	S4031® 100m-cable Order-No.
M12x1	4x2	7xØ0.20mm 0.22mm² (24AWG)	WH(BU) BU; WH(OG) OG; WH(GN) GN; WH(BN) BN	Ø 8.9mm	8058196

Features

- flame-retardant | DIN EN60332-2-2, IEC 60332-2-2, CSA FT-2, VDE0482-332-2-2
- halogen-free | DIN EN50267-2-1, IEC60754-1, 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
- 100% shielding because of Polyester foil

Temperature range

operating -25°C...+80°C

fixed installation -50°C...+80°C

drag-chain -25°C...+60°C

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

conductor Cu-ETP1 | DIN EN13602

insulation PE, foamed

shielding foil Al-PT, 100% optical coverage

shielding braid Cu-ETP1, tinned | DIN EN13602

jacket PUR

Wire	Type	Wire-structure	Wire color	Ø - Jacket	S1800® 100m-cable Order-No.
M12x1	2	19xØ0.15mm 1x(2x0.34mm²)	BRD GN	7.6mm	8043857



S1800® | Bus cable_PROFIBUS | PUR

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 environment conditions (abrasion, bending, vibrations etc.). Drag-chain application is possible. (>1million bending cycles).



PUR | Bus cable_CANopen/DeviceNet | S52800®

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.

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 ■ good oil resistance
Temperature range	operating -25°C...+80°C fixed installation -50°C...+80°C
Bending radius	10 x Ø-cable single 5 x Ø-cable
Rated voltage	≤ 300 V
Color outer-jacket	black similar RAL9005
Wire-structure	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	S52800® 100m cable Order-No.
M12x1	4	LV02Y(S)-CB-11Y (2x0.25mm ²)+-(2x0.34mm ²)	RD BK WH BU	6.7mm	8047939



S5015®/S5025® | POWER | PUR

High flexible and oil-resistant, halogen-free control cables for fixed-wired dynamic drag-chain applications (a= 50m/s²) with average loads. The PUR outer jacket is firm and resistant to high mechanical stresses like grinding or abrasion. They are adapted for applications in automation, load circuits of industrial machinery, automatic assembly- and placement machinery, especially in wet areas of machine tools and transfer lines. The cables meet the UL and CSA requirements.

Features	<ul style="list-style-type: none"> ■ flame-retardant VDE0482-332-1-2, IEC 60332-1-2, UL VW-1, CSA FT2 ■ seawater-resistant ■ recyclable ■ LABS-free ■ RoHS-conform ■ good weld-field immunity ■ acids- and alkali resistance ■ ozone-resistance EN50396, VDE0473-396 B ■ UV-resistance EN ISO4892-2:2006 A ■ microbes strength ■ high flexibility, drag-chain capable ≤ 10 million cycles ■ halogen-free VDE0472 Part 8 15 ■ oil resistance EN50363-10-2, VDE0207-363-10-2
Temperature range	operating -40°C...+90°C (VDE) -40°C...+80°C (UL/CSA) fixed installation -50°C...+90°C (VDE) -50°C...+80°C (UL/CSA)
Bending radius	repeated 55015: 7,5xØ-cable 55025: 10xØ-cable
Rated voltage	single 4xØ-cable
Color outer-jacket	VDE Uy/U: 600V/1000V black similar RAL9005
Wire-structure	VDE 0295 EN/IEC60228, Class 6
conductor	Cu, bare; fine-wired
insulation	PP, halogen-free
jacket	PUR, halogen-free

Wire	Type	Wire-structure	Wire color	Ø - Jacket	S5015® 100m cable Order-No.	S5025® 100m cable Order-No.
M12x1	2+PE	LF9Y11YHF-JB 3x1,5	fine-wired Class 6	8.5mm	8064082	
	4	LF9Y11YHF-OB 4x1,5	fine-wired Class 6	9.6mm	8064083	
	4	LF9Y11YHF-OB 4x2,5	fine-wired Class 6	11.0mm		8064084