## SUPERFLEX® PLUS M (C) PUR SERVO ETHERNET combined power supply cable for Siemens and other systems For highest requirements







brown, U/L1/C/L+, black, V/L2, grey, W/L3/D/L-, yellow/green

yellow, blue, green, orange

(2×AWG21) black, white (4×AWG26)





- pplication

  Connection cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology

  Thanks to optimized cable construction designed for continuous flexing applications in C-tracks

  Very good resitance against aggressive coolants and lubricants Especially for industrial environments in mechanical and system
- engineering

#### **Properties**

- roperties
  High active and passive interference resistance (EMC)
  Braided shield optimised for continuous flexing use

- Very good alternating bending strength
  Low adhesion, abrasion-resistant, nick-resistant, tear-propagation-resistant
- Hydrolysis-resistant, microbe-resistant, and rot-resistant Weatherproof, ozone and UV resistant (normal lighting condi-
- Good ruggedness and salt water resistance
  Excellent coolant and lubricant resistance
  Resistant to most oils, greases, alcohol-free benzines and kero-
- sene Silicone free
- RoHS compliant

## Technical data

Rated voltage

UL style

UL-Style AWM 20233 80 °C 300 V 111767: UL-Style AWM 21223 80 °C 1000 V

111766: 300 V 111767: 1000 V

111766: AC 2000 V 111767: AC 3000 V Test voltage

Insulation resistance at 20 °C ≥ 500 MΩ×km Impedance nom. 100  $\Omega$ Temperature range moving -40 °C ... +80 °C

Temperature range fixed -40 °C ... +80 °C Minimum bending radius

Minimum bending radius fixed 5×D

Burning behavior according to DIN EN 60332-1-2 IEC 60332-1-2

UL VW1, FT1

Halogen free according to IEC 60754-1 CE RoHS Conformity

Approvals

- Construction
  Conductor: Cu-Litze verzinnt, AWG-Leiter
  Cat.5 Element CU-Litze blank
  Conductor category: IEC 60228, Class 6, superfine strand
  Conductor insulation: Polyolefin
  Ground conductor: G = with green/yellow ground conductor, × = without ground conductor. without ground conductor

cURus

- Overall stranding: elements stranded together, layer pitch optimi-
- sed
  Overall shield: Braid shield, Tinned copper wires, optical cover
  approx. 85%
  Jacket material: PUR
  Surface: matt

- Jacket color: orange RAL 2003

Part- No.		Number of strands/cross- section/strand colors	SIEMENS designation*	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
111766	S*	(4GAWG22+(2×AWG22)+ (4×AWG26)) AWM 20233 4GAWG22 brown, U/L1/C/L+, black, V/L2, grey, W/L3/D/L-, yellow/green (2×AWG22) black, white (4×AWG26) yellow, blue, green , orange	1BE04	9.8	12.8	7.1
111767	S*	(4GAWG19+(2×AWG21)+ (4×AWG26)) AWM 21223 4GAWG19	1BE08	10.6	15.8	9.6



## SUPERFLEX® PLUS M (C) PUR SERVO ETHERNET combined power supply cable for Bosch-Rexroth and other systems For highest requirements











LÜTZE SUPERFLEX®

### Application

- For Indramat\* system (and similar)
  Connection cable motor/brake especially for frequency converters
  and SERVO drives in machine and plant construction, transport
- and SERVO drives in machine and plant construction, transport and conveyor technology
  Due to full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely rough operating conditions and aggressive coolants and lubricants
  Especially for industrial environments in mechanical and system engineering

- Properties
   High active and passive interference resistance (EMC)

- Praided shield optimised for continuous flexing use
  Very good alternating bending strength
  Low adhesion, abrasion-resistant, nick-resistant, tear-propagation-resistant
- Hydrolysis-resistant, microbe-resistant, and rot-resistant Weatherproof, ozone and UV resistant (normal lighting condi-
- Good ruggedness and salt water resistance Excellent coolant and lubricant resistance
- Resistant to most oils, greases, alcohol-free benzines and kerosene
- Silicone free
- RoHS compliant

#### **Technical data**

UL style AWM 21223 Rated voltage 1000 V Test voltage AC 3000 V Insulation resistance at 20 °C ≥ 500 MΩ×km nom. 100  $\Omega$ Impedance Temperature range moving -40 °C ... +80 °C -40 °C ... +80 °C Temperature range fixed Minimum bending radius 7.5×D

Minimum bending radius fixed 5×D

Burning behavior according to DIN EN 60332-1-2

IEC 60332-1-2 UL VW1, FT1

Halogen free according to IEC 60754-1

Conformity CE

RoHS Approvals cURus

- Construction
  Conductor: CU-wire bare
  Conductor category: IEC 60228, Class 6, superfine strand
  Conductor insulation: Polyolefin
- Ground conductor: G = with green/yellow ground conductor, × = without ground conductor: Overall stranding: elements stranded together, layer pitch optimised Overall shield: Braid shield, Tinned copper wires, optical cover approx. 85%

- Jacket material: PUR Surface: matt
- Jacket color: orange RAL 2003

Part- No.		Number of strands/cross- section/strand colors	INK Description*	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
111759	S*	(4G1,5+(2×0,75)+ (4×AWG24)) 4G1,5 black, with white number print, green/yellow (2×0,75) black, with white number print (4×AWG24) white, yellow, blue, orange	MS2N	13.3	25.0	15.0



## LÜTZE SUPERFLEX $^{\otimes}$ PLUS M (C) PUR HYBRID SERVO 0,6/1 kV combined power supply cable for servo motors with Hiperface DSL® interface For the highest of standards















- Application

  Combined power supply cable with motor supply, brake and digital feedback especially for SERVO drives in machine and plant construction, transport and conveyor technology

  Due to Full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely rough operating conditions and aggressive coolants and lubricants

  Especially for industrial environments in mechanical and system
- engineering

#### **Properties**

- High active and passive interference resistance (EMC) Braided shield optimised for continuous flexible use

- Very good alternating bending strength
  Low adhesion, abrasion-resistant, nick-resistant, tear-propagation-resistant
- Hydrolysis-resistant, microbe-resistant, and rot-resistant Weatherproof, ozone and UV resistant (normal lighting condi-
- Good ruggedness and salt water resistance
  Excellent coolant and lubricant resistance
  Resistant to most oils, greases, alcohol-free benzines and kero-
- sene Silicone free
- RoHS compliant

### Technical data

UL style AWM 21223 Rated voltage UL 1000 V Rated voltage U<sub>0</sub>/U 600/1000 V Test voltage AC 3000 V Insulation resistance at 20 °C ≥ 500 MΩ×km Temperature range moving -40 °C ... +80 °C -40 °C ... +80 °C Temperature range fixed 7.5×D

Minimum bending radius

Minimum bending radius fixed 5×D

Burning behavior according to VDE 0482 322-1-2

DIN EN 60332-1-2 IEC 60332-1-2 UL 1581 Part 1080 VW-1

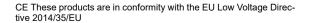
IEC 60754-1 Halogen free according to Conformity RoHS

Approvals cURus

- Construction
  Conductor: CU-wire bare
- Conductor category: IEC 60228, Class 6, Superfinely stranded DIN VDE 0295, class 6
- Conductor insulation: Special Polyolefin
  Conductor marking: black, with white print, U/L1/C/L+, V/L2, W/
  L3/D/L-, green/yellow
  Ground conductor: G = with green/yellow ground conductor, × =

- without ground conductor
  Inner jacket: TPE
  Overall stranding: elements stranded together
  Overall wrapping: Fleece taping
  Overall shield: Braid shield, Tinned copper wires, optical cover
- approx. 85%
  Jacket material: PUR
  Jacket color: orange RAL 2003

Part- No.		Number of conductors/cross- section	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
with co	ntrol	pair (black, white) and BUS pair (	white, blue)		
111728	S*	(4G0.75+(2×0.34)+(2×AWG22))	11.7	19.8	11.4
111630	S*	(4G1.0+(2×0.75)+(2×AWG22))	12.4	19.0	13.5
111631	S*	(4G1.5+(2×1.0)+(2×AWG22))	13.2	25.1	16.3
111632	S*	(4G2.5+(2×1.0)+(2×AWG22))	14.5	31.4	21.7
111633	S*	(4G4+(2×1.0)+(2×AWG22))	16.2	40.8	28.9
111634	R*	(4G6+(2×1.0)+(2×AWG22))	18.0	51.2	37.3
111635	R*	(4G10+(2×1.5)+(2×AWG22))	21.0	77.9	78.3
111636	R*	(4G16+(2×1.5)+(2×AWG22))	26.0	119.8	119.8





## LÜTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV **High Flexing Motor Cable for Siemens and other systems** For highest requirements











### Application

- Application

  Connection cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology

  Due to optimized cable construction optimally suited for continuous flexing applications in C-tracks

  Very good resitance against aggressive coolants and lubricants Especially for industrial environments in mechanical and system

#### engineering **Properties**

- High active and passive interference resistance (EMC) Braided shield optimised for continuous flexible use

- Very good alternating bending strength
  Low adhesion, abrasion-resistant, nick-resistant, tear-propagation-resistant
- Hydrolysis-resistant, microbe-resistant, and rot-resistant Weatherproof, ozone and UV resistant (normal lighting condi-
- Good ruggedness and salt water resistance
  Excellent coolant and lubricant resistance
  Resistant to most oils, greases, alcohol-free benzines and kero-
- sene Silicone free
- RoHS compliant

#### Technical data

UL style AWM 21223 Rated voltage UL 1000 V Rated voltage U<sub>0</sub>/U 600/1000 V Test voltage AC 4000 V Insulation resistance at 20 °C ≥ 500 MΩ×km Temperature range moving -25 °C ... +80 °C Temperature range fixed -40 °C ... +80 °C Minimum bending radius 7.5×D ≤16 mm<sup>2</sup> 10×D ≥25 mm<sup>2</sup>

Minimum bending radius fixed 5×D

Burning behavior according to IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2

UL 1581 Part 1080 VW-1 UL FT1

Halogen free according to DIN EN 60754-1 IEC 60754-1

Conformity CE

RoHS REACH cURus

Approvals

### Construction

- Conductor: CU-wire bare
  Conductor category: IEC 60228, Class 6, Superfinely stranded
  DIN VDE 0295, class 6
  Conductor insulation: Special TPE
- Conductor marking: black, with white print, U/L1/C/L+, V/L2, W/L3/D/L-, green/yellow
- Ground conductor: G = with green/yellow ground conductor, × = without
- Ground conductor: G = with green/yellow ground conductor, × = without ground conductor. Overall stranding: conductors twisted without mechanical stress, layer pitch optimised, conductors twisted without mechanical stress. Overall wrapping: Fleece taping. Overall shield: Braid shield, Tinned copper wires, optical cover approx. 85%.
- Jacket material: PUR Surface: adhesion-free, matt
- Jacket color: orange RAL 2003

Part- No.		Number of con- ductors/cross-	SIEMENS designation*	Outer Ø	Weight kg/100 m	Cu-Index kg/100 m
NO.		section	designation		kg/100 III	kg/100 III
Constru	ıctio	n without signal pai	r			
111879	S*	(4G1.0)		7.4	10.8	6.5
111460	S*	(4G1.5)	1BB11	8.6	11.7	8.3
111461	S*	(4G2.5)	1BB21	10.8	17.3	13.0
111462	S*	(4G4)	1BB31	12.2	24.5	19.3
111463	S*	(4G6)	1BB41	14.0	36.5	27.5
111464	S*	(4G10)	1BB51	17.6	54.9	45.0
111465	S*	(4G16)	1BB61	21.2	84.9	72.0
111466	S*	(4G25)	1BB25	25.0	129.9	108.0
111467	S*	(4G35)	1BB35	28.8	169.2	152.4
111468	S*	(4G50)	1BB50	33.9	244.2	216.8
Constru	ıctio	n with one signal pa	ir (white, black)			
111420	S*	(4G1.5+(2×1.5))	1BA11	11.6	21.0	14.9
111421	S*	(4G2.5+(2×1.5))	1BA21	12.9	23.5	19.3
111422	S*	(4G4+(2×1.5))	1BA31	14.5	32.0	25.5
111423	S*	(4G6+(2×1.5))	1BA41	16.1	43.0	33.9
111424	S*	(4G10+(2×1.5))	1BA51	19.5	68.0	52.6
111425	S*	(4G16+(2×1.5))	1BA61	23.6	95.6	77.3
111426	S*	(4G25+(2×1.5))	1BA25	28.5	136.5	113.0
111427	R*	(4G35+(2×1.5))	1BA35	31.0	274.6	159.0
111428	R*	(4G50+(2×1.5))	1BA50	34.5	373.7	224.0



Available with a lead time

## LÜTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV Supply line for Bosch Rexroth and other systems For highest requirements











- For Indramat\* system (and similar)
   Connection cable motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport
- and conveyor technology

  Due to Full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely rough operating conditions and aggressive coolants and lubricants
- Especially for industrial environments in mechanical and system engineering

- Properties
   High active and passive interference resistance (EMC)

- High active and passive interference resistance (EMC)
  Braided shield optimised for continuous flexible use
  Very good alternating bending strength
  Low adhesion, abrasion-resistant, nick-resistant, tear-propagation-resistant
- Hydrolysis-resistant, microbe-resistant, and rot-resistant Weatherproof, ozone and UV resistant (normal lighting condi-
- Good ruggedness and salt water resistance Excellent coolant and lubricant resistance
- Resistant to most oils, greases, alcohol-free benzines and kero-
- Silicone free
- RoHS compliant

#### Technical data

UI style AWM 21223 1000 V Rated voltage UL Rated voltage U<sub>0</sub>/U 600/1000 V Test voltage AC 4000 V Insulation resistance at 20 °C ≥ 0.0 MΩ×km -25 °C ... +80 °C Temperature range moving -40 °C ... +80 °C Temperature range fixed Minimum bending radius 10×D

Minimum bending radius fixed 6×D

Burning behavior according to IEC 60332-1-2

DIN EN 60332-1-2 UL 1581 UL C22.2 No. 210.2 Flame Rating FT1

DIN EN 60754-1 Halogen free according to

Conformity

movina

CE RoHS REACH

Approvals cURus

- Construction
  Conductor: CU-wire bare
  Conductor category: IEC 60228, Class 6, Superfinely stranded DIN VDE 0295, class 6
  Conductor insulation: Polyolefin
  Conductor marking: black, with white number print, green/yellow Ground conductor: G = with green/yellow ground conductor, x = without ground conductor.

- Ground conductor: G = with green/yellow ground conductor, × = without ground conductor
  Overall stranding: elements stranded together, layer pitch optimised, conductors twisted without mechanical stress
  Overall wrapping: Fleece taping
  Overall shield: Braid shield, Tinned copper wires, optical cover approx. 85%
  lacket material: PLIR
- Jacket material: PUR
- Surface: adhesion-free, matt Jacket color: orange RAL 2003

Part-	Number of conductors/	INK	Outer Ø	Weight	Cu-Index
No.	cross-section	Description*	mm	kg/100 m	kg/100 m
Construction	on with two control pairs (di	git print 5, 6 and	17, 8)		
111719 <b>R</b> *	(4G0.75+2×(2×0.34))		11.2	17.7	9.5
111270 <b>S</b> *	(4G1.0+2×(2×0.75))	INK 0653	12.5	23.2	13.8
111271 <b>S</b> *	(4G1.5+2×(2×0.75))	INK 0650	12.9	25.5	16.2
111279 <b>S</b> *	(4G2.5+2×(2×1.0))	INK 0602	14.2	33.0	22.6
111388 <b>S*</b>	(4G4+(2×1.0)+(2×1.5))	INK 0603	16.3	38.0	32.9
111998 <b>S</b> *	(4G6+(2×1.0)+(2×1.5))	INK 0604	18.4	53.0	38.5
111762 <b>S</b> *	(4G10+(2×1.0)+(2×1.5))	INK 0605	22.3	76.5	57.0
111276 <b>S</b> *	(4G16+2×(2×1.5))	INK 0606	26.8	106.4	89.1
111277 <b>R</b> *	(4G25+2×(2×1.5))	INK 0607	29.3	171.4	126.0
111278 <b>R</b> *	(4G35+2×(2×1.5))	INK 0667	32.5	217.6	164.0

<sup>\*</sup> Indramat article designations are registered trademarks



CE These products are in conformity with the EU Low Voltage Direc-















### LÜTZE SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV

for Lenze and other systems, for highest requirements

Part-No.	Number of conductors/	UL approval	Outer diameter	Weight kg/100 m	Cu-Index kg/100 m
	cross-section		mm		
For Lenze Syste	m (and similar) with control pair	(brown, white)			
111439 <b>S*</b>	(4G1,0+(2x0,5))	cURus, AWM Style 21223	9,6	13,4	8,0
111536 <b>S</b> *	(4G1,5+(2x0,5))	cURus, AWM Style 21223	11,0	19,2	10,6
111997 <b>S*</b>	(4G2,5+(2x0,5))	cURus, AWM Style 21223	12,8	27,1	15,3
111763 <b>R*</b>	(4G4+(2x1,0))	cURus, AWM Style 21223	14,8	37,3	23,5
111764 <b>R*</b>	(4G6+(2x1,0))	cURus, AWM Style 21223	16,9	47,7	31,6
111765 <b>R*</b>	(4G10+(2x1,0))	cURus, AWM Style 21223	20,3	71,0	51,3

### Construction

CU-wire bare Conductor: Conductor insulation: Special TPF

Overall shield: Braid shield, Tinned copper wires,

optical cover approx. 85 %

Jacket material:

orange RAL 2003 Color:

### **Properties**

Rated voltage: 600 / 1000 V 4000 V Test voltage:

moving: -25°C bis +80°C fixed: -40°C bis +80°C Temperature range:

Bending radius: moving: 10xD

fixed: 6xD

Burning behavior: IEC 60332-1, DIN EN 60332-1-2, UL FT1 VDE 0482 332-1-2, UL 1581 Teil 1080 VW-1















## LÜTZE SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV

for SEW and other systems, for highest requirements

Part-No.	Number of conductors/	UL approval	Outer diameter	Weight kg/100 m	Cu-Index kg/100 m
	cross-section		mm		
For system SEW, with	h sub jacket and three eleme	ets (digit print 1,2,3)			
111560 <b>R</b> *	(4G1,5+(3x1,0))	cURus, AWM Style 21223	11,8	24,4	13,9
111561 <b>R</b> *	(4G2,5+(3x1,0))	cURus, AWM Style 21223	13,7	30,6	18,3
111562 <b>R</b> *	(4G4+(3x1,0))	cURus, AWM Style 21223	14,7	39,6	25,6
111563 <b>R</b> *	(4G6+(3x1,5))	cURus, AWM Style 21223	17,0	52,9	34,4
111564 <b>R</b> *	(4G+10(3x1,5))	cURus, AWM Style 21223	20,5	73,0	52,2
Construction			Properties		
Conductor:	CU-wire bare		Rated voltage:	600 / 1000 V	
Conductor insulation:	Special TPE		Test voltage:	4000 V	
Overall shield:	Braid shield, Tinned copper	wires,	Temperature range:	moving: -25°C bis +80°C	

optical cover approx. 85 % Jacket material:

orange RAL 2003 Color:

fixed: -40°C bis +80°C

moving: 10xD Bending radius: fixed: 6xD

IEC 60332-1, DIN EN 60332-1-2, UL FT1, Burning behavior: VDE 0482 332-1-2, UL 1581 Teil 1080 VW-1

## LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK **Encoder cables for Siemens and other systems** For highest requirements in drive technology











- Incremental encoder cable, connection cable for tacho sensor, brake sensor, speed sensor

  Due to Full PUR jacket and TPE conductor insulation optimally
- suited for c-tracks, extremely rough operating conditions and aggressive coolants and lubricants
- Especially for industrial environments in mechanical and system engineering

### **Properties**

- roperties
  High active and passive interference resistance (EMC)
  Braided shield optimised for continuous flexible use
  Very good alternating bending strength
  Low adhesion, abrasion-resistant, nick-resistant, tear-resistant
  Hydrolysis-resistant, microbe-resistant, and rot-resistant
  Weatherproof, ozone and UV resistant (normal lighting condi-
- Good ruggedness and salt water resistance
  Excellent coolant and lubricant resistance
  Resistant to most oils, greases, alcohol-free benzines and kero-
- sene Silicone free
- RoHS compliant

#### Technical data

AWM 20236 UL style 30 V Rated voltage AC 500 V Test voltage Insulation resistance at 20 °C ≥ 200 MΩ×km -25 °C ... +80 °C Temperature range moving Temperature range fixed -40 °C ... +80 °C

Minimum bending radius moving

Minimum bending radius fixed 6×D

Burning behavior according to IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 Part 1080 VW-1 UL FT1

DIN EN 60754-1 Halogen free according to

IEC 60754-1 Conformity

CE RoHS

REACH

cURus AWM II A/B Approvals

### Construction

- Conductor: CU-wire tin-plated
  Conductor category: IEC 60228, Class 6, Superfinely stranded
  DIN VDE 0295, class 6
  Conductor insulation: Polyolefin

- Conductor Insulation: Polyoletin
  Conductor marking: Color coded
  Overall stranding: layered construction
  Overall shield: Braid shield, Tinned copper wires, optical cover approx. 85%
- Jacket material: PUR Surface: adhesion-free, matt
- Jacket color: green RAL 6018

Part- No.		Number of strands/cross-section/ strand colors	SIEMENS designation*	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
For Sier	nens	s 6FX8000* standard system (and sin	nilar)			
111412	No. strand colors  For Siemens 6FX8000* stan  111412 R* (8×2×0.18) (8×2×0.18) (8×2×0.18) white/green, wh white/orange, w brown, white, gr , yellow, red, on  111456 S* (4×0.5+4×2×0.3 4×0.5 white/blue, whit white/yellow 4×2×0.38 black, brown, vi green , red, ora  111459 S* (2×(0.5)+3×(2×0.2 2×(0.5) red, black 3×(2×0.14) yellow, green , I black  111458 S* (2×0.5+3×(2×0.2 2×0.5 brown/blue, bro 3×(2×0.14) green , yellow, I orange 4×0.14 blue, grey, white  111457 S* (2×0.5+4×0.23+2 2×0.5 brown/blue, bro 4×0.23 green/red, green brown/grey 3×(2×0.14) yellow, green , I orange 4×0.14 blue, grey, white  111453 R* (4×2×0.18) (4×2×0.18) (4×2×0.18) (12×0.23) black, brown, red green, blue, gre ge, brown, place  111454 R* (12×0.23) (12×0.23) black, brown, red green, blue, vice black, brown, red	( )	1BD11	8.2	13.1	7.3
111456	S*	white/blue, white/black, white/red, white/yellow	1BD21	9.4	13.2	8.6
111459	S*	red, black 3×(2×0.14) yellow, green , red, orange, brown,	1BD31	8.7	12.8	6.9
111458	S*	brown/blue, brown/red 3×(2×0.14) green , yellow, black, brown, red, orange	1BD41	8.6	12.2	6.1
111457	S*	(2×0.5+4×0.23+3×(2×0.14)+4×0.14) 2×0.5 brown/blue, brown/red 4×0.23 green/red, green/black, brown/yellow, brown/grey 3×(2×0.14) yellow, green , black, brown, red, orange	1BD51	9.8	15.3	9.3
111453	R*	(4×2×0.18)	1BD61	6.6	7.6	3.2
111452	R*		1BD71	5.1	4.2	2.2
		(12×0.23) black, brown, red, orange, yellow, green , blue, violet, grey, white, white/black, white/brown		7.4	8.5	4.7
		s-System DRIVE-CLiQ standard syst	•	•		
104310	S*	(2×2×AWG26+1×2×AWG22)	2DC00	6.8	7.3	3.4

CE These products are in conformity with the EU Low Voltage Direc-

<sup>\*</sup> SIEMENS and DRIVE-CLiQ are registered trademarks



2×2×AWG26 pink, blue, yellow, green 1×2×AWG22 red, black

## LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK Feedback cables for Siemens Drive Cliq and other systems For highest requirements in drive technology











- Incremental encoder cable, connection cable for tacho sensor, brake sensor, speed sensor

  Due to optimized cable construction optimally suited for conti-
- nuous flexing applications in C-tracks

  Very good resitance against aggressive coolants and lubricants

  Especially for industrial environments in mechanical and system engineering

### Properties

- Properties
  High active and passive interference resistance (EMC)
  Braided shield optimised for continuous flexible use
  Very good alternating bending strength
  Low adhesion, abrasion-resistant, nick-resistant, tear-propagation-resistant
- เเดา-resistant Hydrolysis-resistant, microbe-resistant, and rot-resistant Weatherproof, ozone and UV resistant (normal lighting condi-
- Good ruggedness and salt water resistance
- Excellent coolant and lubricant resistance
- Resistant to most oils, greases, alcohol-free benzines and kero-
- Silicone free RoHS compliant

### Technical data

UL style AWM 20549 Rated voltage 300 V Test voltage AC 2000 V Insulation resistance at 20 °C ≥ 1000 MΩ×km -25 °C ... +80 °C Temperature range moving Temperature range fixed -40 °C ... +80 °C 12×D

Minimum bending radius

Minimum bending radius fixed 5×D

Burning behavior according to IEC 60332-1 DIN EN 60332-1-2

UL VW1, FT1

CE RoHS Conformity

REACH

Approvals cURus

### Construction

- Onstruction
  Conductor: CU-wire bare
  Conductor category: IEC 60228, Class 6, superfine strand
  Conductor insulation: Special Polyolefin
  Overall stranding: elements stranded together

- Overall wrapping: double fleece taping
  Overall shield: aluminium-laminated film shield, optical cover approx. 100%, Braid shield, Tinned copper wires, optical cover approx. 85% Jacket material: PUR
- Jacket color: green RAL 6018

Part- No.		Number of strands/cross- section/strand colors	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
104402	S*	(2x2xAWG24+1x2AWG22) 2x2xAWG24 pink, blue, yellow, green 1x2xAWG22 red, black	6.7	7.3	3.5



## LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK Feedback cables for Bosch-Rexroth and other systems For highest requirements in drive technology











- Incremental encoder cable, connection cable for tacho sensor, brake sensor, speed sensor
  Due to Full PUR jacket and TPE conductor insulation optimally
- suited for c-tracks, extremely rough operating conditions and aggressive coolants and lubricants
- Especially for industrial environments in mechanical and system engineering

### **Properties**

- High active and passive interference resistance (EMC)
  Braided shield optimised for continuous flexible use
  Very good alternating bending strength
  Low adhesion, abrasion-resistant, nick-resistant, tear-propaga-
- นดา-resistant Hydrolysis-resistant, microbe-resistant, and rot-resistant Weatherproof, ozone and UV resistant (normal lighting condi-
- Good ruggedness and salt water resistance Excellent coolant and lubricant resistance
- Resistant to most oils, greases, alcohol-free benzines and kero-
- Silicone free RoHS compliant

### Technical data

UL style AWM 20233 Rated voltage 300 V Test voltage AC 2000 V Insulation resistance at 20 °C ≥ 200 MΩ×km Temperature range moving -25 °C ... +80 °C -40 °C ... +80 °C Temperature range fixed

7.5×D Minimum bending radius

Minimum bending radius fixed 5×D

Burning behavior according to IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 Part 1080 VW-1

Halogen free according to

DIN EN 60754-1 IEC 60754-1

Conformity

CE RoHS REACH cURus

Approvals

### Construction

- Conductor: CU-wire bare
  Conductor: CU-wire bare
  Conductor category: IEC 60228, Class 6, Superfinely stranded
  DIN VDE 0295, class 6
  Conductor insulation: Special TPE
  Conductor marking: Color coded
  Overall stranding: layered construction, layer pitch optimised,
  conductors twisted without mechanical stress
  Overall shield: Braid shield, Tinned copper wires, optical cover

- approx. 85% Jacket material: PUR
- Surface: adhesion-free, matt Jacket color: orange RAL 2003

Part- No.		Number of strands/cross- section/strand colors	INK Description*	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
For Bos	ch-F	Rexroth system (and similar)				
110941	S*	(2×1.0+4×2×0.25) 2×1.0 white, brown 4×2×0.25 brown, green , grey, pink, red, black, blue, violet	INK-0209*	8.9	12.0	6.4
111780	S*	(2×0.5+4×2×0.25) 2×0.5 white, brown 4×2×0.25 brown, green , grey, pink, red, black, violet, blue	INK-0448*	8.5	10.0	5.9
110940	S*	(9×0.5) (9×0.5) DIN 47100	INK-0208*	8.8	12.5	7.5
111495		4×1.0 blue, white, white/green, brown/black 4×2×0.14 red, black, green, brown, grey, pink, yellow, violet (4×0.14) black/green, black/yellow, black/blue, black/red		9.5	13.7	9.6
111781	S*	(2×2×0.25+2×0.5) 2×2×0.25 grey, pink, red, black 2×0.5 white, brown	INK-0750*	7.6	9.0	4.2

<sup>\*</sup> Indramat article designations are registered trademarks



CE These products are in conformity with the EU Low Voltage Direc-

## LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK Feedback cables for Allen-Bradley and other systems For highest requirements in drive technology











- Incremental encoder cable, connection cable for tacho sensor, brake sensor, speed sensor

  Due to optimized cable construction optimally suited for conti-
- Due to optimized capie construction optimally suited for continuous flexing applications in C-tracks
   Very good resitance against aggressive coolants and lubricants
   Especially for industrial environments in mechanical and system engineering

### Properties

- Properties
  High active and passive interference resistance (EMC)
  Braided shield optimised for continuous flexible use
  Very good alternating bending strength
  Low adhesion, abrasion-resistant, nick-resistant, tear-propagation-resistant
- เเดา-resistant Hydrolysis-resistant, microbe-resistant, and rot-resistant Weatherproof, ozone and UV resistant (normal lighting condi-
- Good ruggedness and salt water resistance
- Excellent coolant and lubricant resistance
- Resistant to most oils, greases, alcohol-free benzines and kero-
- Silicone free RoHS compliant

### Technical data

UL style AWM 21223 Rated voltage 1000 V Test voltage AC 2000 V Insulation resistance at 20 °C ≥ 200 MΩ×km -25 °C ... +80 °C Temperature range moving -40 °C ... +80 °C Temperature range fixed

10×D Minimum bending radius

Minimum bending radius fixed 6×D

Burning behavior according to IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 Part 1080 VW-1

UL FT1

DIN EN 60754-1 Halogen free according to

IEC 60754-1

Conformity

CE RoHS REACH

Approvals cURus

### Construction

- Conductor: CU-wire bare
- Conductor category: IEC 60228, Class 6, Superfinely stranded DIN VDE 0295, class 6
  Conductor insulation: Special TPE
- Overall stranding: elements stranded together, layer pitch optimi-sed, conductors twisted without mechanical stress
- Overall wrapping: Fleece taping
  Overall shield: Braid shield, Tinned copper wires, optical cover
- approx. 85% Jacket material: PUR
- Jacket color: green RAL 6018

Part- No.	Number of strands/cross-section/ strand colors	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
For Allen-Br	adley system (and similar)			
111489 <b>S*</b>	(2×AWG16+2×AWG22+6×2×AWG26) 2×AWG16 grey, white/grey 2×AWG22 orange, white/orange 6×2×AWG26 black/white, black, red/white, red, green/ white, green , blue/white, blue, brown/ white, brown, yellow/white, yellow	10.8	18.0	12.0
111488 <b>S*</b>	(5×2×AWG22) (5×2×AWG22) black/white, black, red/white, red, green/ white, green , grey/white, grey, orange/ white, orange	9.2	10.7	5.4













### LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

for Heidenhain and other systems, for highest requirements

Number of strands/cross- section/strand color	UL approval	Outer diameter mm	Weight kg/100 m	Cu-Index kg/100 m
em (and similar)				
(4x0,5+4x2x0,14+(4x0,14)) 4x0,5: white, blue, brown/green, white/green 4x2x0,14: yellow, violet, grey, pink, brown, green, red, black (4x0,14): green/black, blue/black, yellow/black,	cURus, AWM Style 20233	8,7	12,3	6,0
	ol IPuo	9.6	0.0	4,8
4x0,5: white, blue, brown/green, white/green 4x2x0,14: yellow, violet, grey, pink, brown, green, red, black	AWM Style 20233	0,0	₹,८	4,0
		Properties		
CU-wire bare Special TPE Braid shield, Tinned copper wire, optical cover approx. 85 % PUR black RAL 9005		Rated voltage: Test voltage: Temperature range: Bending radius:	300 V 2000 V moving: -25°C bis +80°C fixed: -40°C bis +80°C moving: 12xD fixed: 6xD	
	section/strand color tem (and similar)  (4x0,5+4x2x0,14+(4x0,14)) 4x0,5: white, blue, brown/green, white/green 4x2x0,14: yellow, violet, grey, pink, brown, green, red, black (4x0,14): green/black, blue/black, yellow/black, red/black (4x0,5+4x2x0,14) 4x0,5: white, blue, brown/green, white/green 4x2x0,14: yellow, violet, grey, pink, brown, green, red, black  CU-wire bare Special TPE Braid shield, Tinned copper wire, optical cover approx. 85 % PUR	section/strand color tem (and similar)  (4x0,5+4x2x0,14+(4x0,14)) cURus, 4x0,5: white, blue, brown/green, white/green 4x2x0,14: yellow, violet, grey, pink, brown, green, red, black (4x0,14): green/black, blue/black, yellow/black, red/black (4x0,5+4x2x0,14) cURus, 4x0,5: white, blue, brown/green, white/green 4x2x0,14: yellow, violet, grey, pink, brown, green, red, black  CU-wire bare Special TPE Braid shield, Tinned copper wire, optical cover approx. 85 % PUR	section/strand color em (and similar)  (4x0,5+4x2x0,14+(4x0,14)) cURus, 8,7  4x0,5: white, blue, brown/green, AWM Style 20233  white/green  4x2x0,14: yellow, violet, grey, pink, brown, green, red, black (4x0,14): green/black, blue/black, yellow/black, red/black (4x0,5+4x2x0,14) cURus, 8,6  4x0,5: white, blue, brown/green, white/green  4x2x0,14: yellow, violet, grey, pink, brown, green, red, black  CU-wire bare Special TPE Braid shield, Tinned copper wire, optical cover approx. 85 % PUR  Raynor Mm  PURus, 8,6  AWM Style 20233  White/green  4x2x0,14: yellow, violet, grey, pink, brown, green, red, black  Properties  Rated voltage: Temperature range: Temperature range:  Bending radius:	section/strand color  tem (and similar)  (4x0,5+4x2x0,14+(4x0,14)) cURus, 8,7 12,3  4x0,5: white, blue, brown/green, AWM Style 20233  white/green  4x2x0,14: yellow, violet, grey, pink, brown, green, red, black  (4x0,14): green/black, blue/black, yellow/black, red/black  (4x0,5+4x2x0,14) cURus, 8,6 9,2  4x0,5: white, blue, brown/green, white/green  4x2x0,14: yellow, violet, grey, pink, brown, green, red, black  CU-wire bare Special TPE  Braid shield, Tinned copper wire, optical cover approx. 85 % PUR  black RAL 9005  mm  mm  12,3  4x7 12,3  4x7 12,3  4x8,7 12,3  4x9,7 12,3  4x



Color:





green RAL 6018









fixed: 6xD

IEC 60332-1, DIN EN 60332-1-2, UL FT1, VDE 0482 332-1-2, UL 1581 Teil 1080 VW-1

## LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

for various systems, for highest requirements

ior various system	is, for nignest requirements				
Part-No.	Number of strands/cross- section/strand color	UL approval	Outer diameter mm	Weight kg/100 m	Cu-Index kg/100 m
For System Fanuc (v	vith drain wire)				
111491 <b>S</b> *	(5x0,5+2x2x0,18)	cURus,	7,8	9,3	6,3
	5x0,5: green, yellow, grey,	AWM Style 20233			
	pink, blue				
	2x2x0,18: white, brown,				
	black, violet				
Für NUM system					
111416 <b>R</b> *	4x(2xAWG22)	cURus,	10,3	14,9	6,6
	black, white, black, green,	AWM Style 20233			
	black, blue, black, red				
For B+R system					
111437 <b>S*</b>	(3x2xAWG24/19)	cURus,	6,6	6,9	2,7
	white,brown,green,yellow,grey,pink	AWM Style 20233			
Construction			Properties		
Conductor:	CU-wire tin-plated		Rated voltage:	300 V	
Conductor insulation:	Speciall TPE		Test voltage:	2000 V	
Overall shield:	Braid shield, Tinned copper wires, optical cover approx. 85 %		Temperature range:	moving: -25°C bis +80°C fixed: -40°C bis +80°C	
Jacket material:	PUR		Bending radius:	moving: 12xD	

Burning behavior:

35

## PUR motor cables · C-track compatible · unshielded

## LÜTZE SUPERFLEX® PLUS PUR 0.6/1 kV Motor/energy supply cable For highest requirements













- Application
   Performance conductor, specifically for machine and device engineering, transport and conveyor technology
   As motor supply or grounding cable
   Due to full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely rough operating conditions and aggressive codants and lubricants sive coolants and lubricants
  Especially for industrial environments, machines and plants

### **Properties**

- Halogen-free, no corrosive gases
  Very good alternating bending strength
  Low adhesion, abrasion-resistant, nick-resistant, tear-propaga-
- Hydrolysis-resistant, microbe-resistant, and rot-resistant Weatherproof, ozone and UV resistant (normal lighting condi-
- Good ruggedness and salt water resistance
  Excellent coolant and lubricant resistance
  Resistant to most oils, greases, alcohol-free benzines and kerosene Silicone free
- RoHS compliant

### Technical data

movina

AWM 10587 UL style Rated voltage 1000 V Test voltage AC 3000 V -25 °C ... +80 °C Temperature range moving -40 °C ... +80 °C Temperature range fixed

Minimum bending radius 7.5×D

Minimum bending radius fixed 4×D

Burning behavior according to IEC 60332-1
DIN EN 60332-1-2
VDE 0482 322-1-2
UL 1581
UL FT1

DIN EN 60754-1 Halogen free according to

IEC 60754-1

Conformity RoHS

REACH cURus

Approvals

- Construction
  Conductor: CU-wire bare
  Conductor category: IEC 60228, Class 6, Superfinely stranded DIN VDE 0295, class 6
  Conductor insulation: Special TPE
  Jacket material: PUR
  Surface colleging from mett

- Surface: adhesion-free, matt Jacket color: black RAL 9005

Part- No.		Number of conductors/ cross-section	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m	
Without	shie	eld, black				
111136	S*	1×6	7.1	9.0	5.6	
111126	S*	1×10	8.4	13.8	9.3	
111127	S*	1×16	9.8	20.5	14.8	
111128	S*	1×25	11.4	30.6	23.3	
111129	S*	1×35	13.4	43.1	32.6	
111130	S*	1×50	15.2	57.2	47.8	
111131	S*	1×70	16.6	78.3	64.5	
111132	S*	1×95	19.2	104.3	88.8	
111133	R*	1×120	22.6	130.2	120.0	
Without screen, insulation and jacket greenyellow						
111241	S*	1G6	7.1	9.0	5.6	
111243	S*	1G10	8.4	13.8	9.3	
111197	S*	1G16	9.8	20.5	14.8	
111337	R*	1G25	11.4	30.6	23.3	
111285	S*	1G35	13.4	43.1	32.6	



## PUR motor cables · C-track compatible

## LÜTZE SUPERFLEX® PLUS (C) PUR 0.6/1 kV Motor/energy supply cable, for highest requirements











# RoHS ¥

- Application
   Performance conductor, specifically for machine and device engineering, transport and conveyor technology
   As motor supply or grounding cable
   Due to full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely rough operating conditions and aggressive codants and lubricants sive coolants and lubricants
  Especially for industrial environments, machines and plants

### **Properties**

- Very good alternating bending strength
  Low adhesion, abrasion-resistant, nick-resistant, tear-propagation-resistant
- Hydrolysis-resistant, microbe-resistant, and rot-resistant Weatherproof, ozone and UV resistant (normal lighting condi-

- Good ruggedness and salt water resistance
  Excellent coolant and lubricant resistance
  Resistant to most oils, greases, alcohol-free benzines and kerosene Silicone free
- RoHS compliant

#### Technical data

UL style AWM 10587 Rated voltage 1000 V AC 3000 V Test voltage -25 °C ... +80 °C Temperature range moving -40 °C ... +80 °C Temperature range fixed

Minimum bending radius 7.5×D movina

Minimum bending radius fixed 4×D

Burning behavior according to IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2

UL FT1 UL 1581 cable flame

DIN EN 60754-1 Halogen free according to IEC 60754-1

Conformity

RoHS

cURus Approvals

- Construction
  Conductor: CU-wire bare
  Conductor category: IEC 60228, Class 6, Superfinely stranded DIN VDE 0295, class 6
  Conductor insulation: Special TPE
  Overall shield: Braid shield, Tinned copper wires, optical cover
- approx. 85% Jacket material: PUR
- Surface: adhesion-free, matt Jacket color: black RAL 9005

Part- No.	Number of conductors/ cross-section	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
With CU shi	eld, black			
111288 <b>S*</b>	(1×6)	7.7	11.5	7.7
111289 <b>S</b> *	(1×10)	9.0	17.1	12.1
111290 <b>S</b> *	(1×16)	10.4	24.1	18.1
111291 <b>S</b> *	(1×25)	12.0	35.3	27.3
111292 <b>S</b> *	(1×35)	14.0	48.1	37.3
111293 <b>S</b> *	(1×50)	15.8	63.1	53.1
111294 <b>R*</b>	(1×70)	17.4	85.3	70.6
111295 <b>R</b> *	(1×95)	20.2	114.6	98.0
111296 <b>R</b> *	(1×120)	23.6	143.1	132.0



## PUR motor cables · C-track compatible · unshielded

## LÜTZE SUPERFLEX® PLUS M PUR 0.6/1 kV Motor/energy supply cable For highest requirements















- Application
  Motor connection cable, specifically for machine and device construction, transport and conveyor technology
  Due to full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely rough operating conditions and aggressive coolants and lubricants
  Especially for industrial environments, machines and plants

### **Properties**

- Very good alternating bending strength
- Low adhesion, abrasion-resistant, nick-resistant, tear-propagation-resistant Hydrolysis-resistant, microbe-resistant, and rot-resistant
- Weatherproof, ozone and UV resistant (normal lighting condi-
- Good ruggedness and salt water resistance Excellent coolant and lubricant resistance
- Resistant to most oils, greases, alcohol-free benzines and kero-
- Silicone free
- RoHS compliant

#### Technical data

UL style AWM 21223 Rated voltage UL 1000 V Rated voltage U<sub>0</sub>/U 600/1000 V Test voltage AC 4000 V Insulation resistance at 20 °C ≥ 500 MΩ×km Temperature range moving -25 °C ... +80 °C -40 °C ... +80 °C Temperature range fixed

Minimum bending radius moving 7 5×D

Minimum bending radius fixed 4×D

Burning behavior according to IEC 60332-1
DIN EN 60332-1-2
VDE 0482 322-1-2
UL 1581 Part 1080 VW-1
UL FT1

DIN EN 60754-1 Halogen free according to IEC 60754-1

Conformity

CE RoHS REACH

Approvals cURus

- Construction
  Conductor: CU-wire bare
  Conductor category: IEC 60228, Class 6, Superfinely stranded DIN VDE 0295, class 6

  DIN VDE 0295, class 6

- DIN VDE 0295, class 6
  Conductor insulation: Special TPE
  Conductor marking: black, with white number print, green/yellow
  Ground conductor: G = with green/yellow ground conductor, x =
  without ground conductor
  Overall stranding: layered construction, layer pitch optimised,
  conductors twisted without mechanical stress
  Overall wrapping: Fleece taping
  Jacket material: PUR
  Surface: adhesion-free, matt
  Jacket color: black RAI 9005

- Jacket color: black RAL 9005

Part- No.		Number of conductors/ cross-section	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
111370	S*	4G1.5	8.2	10.5	5.8
111371	S*	4G2.5	10.0	15.2	9.7
111372	S*	4G4	11.6	22.2	15.5
111545	S*	5G4	13.0	26.8	19.4
111373	S*	4G6	13.6	33.8	23.3
111430	S*	5G6	14.4	37.8	29.2
111374	S*	4G10	16.8	55.5	39.1
111429	R*	5G10	18.8	69.5	48.8
111375	S*	4G16	20.4	78.8	62.2
111548	R*	5G16	24.2	112.6	77.5
111376	S*	4G25	24.2	120.8	96.0
111377	S*	4G35	30.5	172.5	136.5
111378	R*	4G50	36.5	265.1	200.1



## PVC servo cables · shielded

## LÜTZE SILFLEX® M (C) PVC SERVO 0.6/1 kV Motor/energy supply cable for Siemens and other systems











- Application
   For Siemens 6FX5008\* standard system (and similar)
   Connection cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction,
- transport and conveyor technology
   Flexible construction for easy installation
   Suitable for static laying and slight movement of machine components (not C-track)
- Low capacitance for high dielectric strength for long cable guide from inverter to motor
- In dry and damp rooms
  Especially for industrial environments in mechanical and system engineering

#### Properties

- Low capacitance for high dielectric strength High active and passive interference resistance (EMC)
- PVC, flame-retardant and self-extinguishing Orange RAL 2003 per DESINA
- Resistant to most oils, greases, alcohol-free benzines and kerosene Silicone free
- RoHS compliant

#### Technical data

AWM 2570 UL style Rated voltage UL 1000 V Rated voltage  $U_0/U$ 600/1000 V Test voltage AC 4000 V Insulation resistance at 20 °C ≥ 500 MΩ×km Temperature range moving -5 °C ... +80 °C -25 °C ... +80 °C Temperature range fixed

Minimum bending radius

Minimum bending radius fixed 6×D

Burning behavior according to IEC 60332-1

DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 Part 1080 VW-1 UL FT1

CE RoHS

Conformity Approvals cURus

- Construction
  Conductor: CU-wire bare
  Conductor category: IEC 60228, Class 5, Finely stranded DIN VDE 0295, Class 5
  TEMPOR
- VDE 0295, Class 5
  Conductor insulation: TPM/PP
  Conductor marking: black, with white print, U/L1/C/L+, V/L2, W/L3/D/L-, green/yellow
  Ground conductor: G = with green/yellow ground conductor, × = without ground conductor
  Overall stranding: layered construction
  Overall shield: Braid shield, Tinned copper wires, optical cover approx. 85%
  Jacket material: Special PVC
  Surface: adhesion-free matt

- Surface: adhesion-free, matt Jacket color: orange RAL 2003

Part- No.		Number of conductors/ cross-section	SIEMENS designation*	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
Constru	ctio	n without signal strands				
116401	S*	(4G1.5)	1BB11	8.4	13.1	8.0
116402	S*	(4G2.5)	1BB21	10.6	21.9	13.0
116403	R*	(4G4)	1BB31	11.5	31.2	19.4
116404	S*	(4G6)	1BB41	13.2	38.0	28.0
Construction with 1 signal pair (white, black)						
116415	S*	(4G1.5+(2×1.5))	1BA11	11.6	24.8	15.0
116416	S*	(4G2.5+(2×1.5))	1BA21	13.0	31.0	19.5

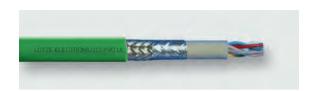
<sup>\*</sup> SIEMENS article designations are registered trademarks of SIEMENS AG



CE These products are in conformity with the EU Low Voltage Direc-

## PVC feedback cables · shielded

## LÜTZE SILFLEX® (C) PVC FEEDBACK Feedback cable for Siemens DRIVE-CLIQ 6FX5008 standard system





red, black







- Application
   Digital feedback cable compatible with Siemens DRIVE-CLIQ standard stystem
   In dry and damp rooms
   For flexible applications without continuous flexing

#### **Properties**

- High active and passive interference resistance (EMC) PVC Flame-retardant, self-extinguishing Resistant to most oils, greases, acids and bases

- Silicone free
- RoHS compliant

#### Technical data

AWM 2502 UL style Rated voltage 30 V Test voltage AC 500 V Insulation resistance at 20 °C ≥ 200 MΩ×km Temperature range moving -5 °C ... +80 °C Temperature range fixed -25 °C ... +80 °C

Minimum bending radius

Minimum bending radius fixed 7.5×D

Burning behavior according to IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2

CE RoHS Conformity

cURus Approvals

### Construction

- Conductor: CU-wire bare
  Conductor: category: IEC 60228, Class 5, Finely stranded DIN
  VDE 0295, Class 5
  Conductor insulation: Polyolefin
- Overall shield: plastic-laminated aluminum foil, Braid shield, Tinned copper wires, optical cover approx. 85% Jacket material: Special PVC Surface: adhesion-free, matt Jacket color: green RAL 6018

Part- No.		Number of strands/cross- section/strand colors	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
For Sie	mens	s system DRIVE-CLIQ 2DC00			
104341	R*	(2×2×AWG26+1×2×AWG22) 2×2×AWG26 green , yellow, blue, pink 1×2×AWG22	6.8	8.5	4.2

CE These products are in conformity with the EU Low Voltage Direc-

<sup>\*</sup> SIEMENS article designations are registered trademarks of SIEMENS AG

