8CCS0015.11110-0

1 General information

- UL/CSA certified
- Can be used in cable drag chains
- Assembled specifically for use with ACOPOSremote drive systems and B&R servo motors with Y-Tec connectors
- springtec - Innovative connector system for secure connections

2 Order data

Model number	Short description	Figure
	SinCos cables	
8CCS0015.11110-0	ACOPOSremote SinCos cable, length 15 m, 10x 0.14 mm² + 2x 0.5 mm², 12-pin female springtec connector, 15-pin male springtec connector, can be used in cable drag chains, UL/CSA listed	

Table 1: 8CCS0015.11110-0 - Order data

3 Technical data

Model number	8CCS0015.11110-0
General information	
Cable cross section	5x 2x 0.14 mm² + 1x 2x 0.50 mm²
Durability	Oil resistant according to VDE 0472 part 803, as well as standard hydraulic oil
Listed	UL AWM Style 20963, 80°C, 30 V, E63216 and CSA AWM I/II A/B, 90°C, 30 V, FT1 LL46064
Cable construction	
Supply lines	
Quantity	2
Wire insulation	Special thermoplastic material
Wire colors	White/green, white/red
Design	Tinned Cu wire
Diameter	0.5 mm²
Shield	No
Stranding	White/red with white/green and filler elements
Signal lines	
Quantity	10
Wire insulation	Special thermoplastic material
Wire colors	Blue, brown, yellow, gray, green, pink, red, black, violet, white
Design	Tinned Cu wire
Diameter	0.14 mm²
Shield	No
Stranding	Green with brown, gray with yellow, white with violet, black with red, pink with blue
Cable stranding	With foil banding
Complete shielding	Cu mesh, optical coverage >85% and wrapped in isolating fabric
Outer sheathing	
Material	PUR
Color	RAL 6018
Labeling	BERNECKER + RAINER 10x0.14+2x0.50 FLEX UL AWM STYLE 20963 80°C 30 V E63216 CSA AWM I/II A/B 90°C 30 V FT1 LL46064
Connector	
Type	Female 12-pin SpringTec connector
Connection cycles	>50
Contacts	12 (2 supply and 10 signal lines)
Additional connectors	Male 15-pin SpringTec connector Connection cycles: >50 Contacts: 15
EN 60529 protection	IP67 when connected
Electrical characteristics	
Test voltage	
Wire/Wire	1 kV
Wire/Shield	0.8 kV

Table 2: 8CCS0015.11110-0 - Technical data

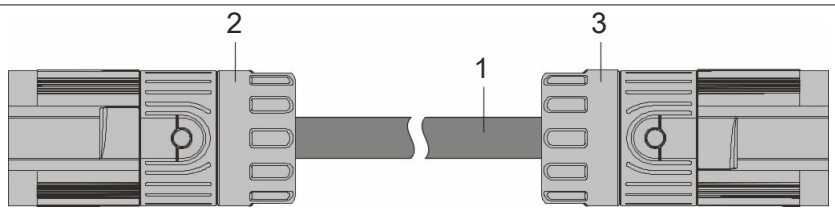
Model number	8CCS0015.11110-0
Conductor resistance	
Supply lines	≤0.6 Ω
Signal lines	≤2.1 Ω
Insulation resistance	>1333 GΩ
Environmental conditions	
Temperature	
Moving	-10 to 80°C
Static	-40 to 90°C
Mechanical characteristics	
Dimensions	
Length	15 m
Diameter	7.85 mm ±0.2 mm
Bend radius	
Single bend	≥24 mm
Moving	≥60 mm
Drag chain data	
Acceleration	<60 m/s²
Flex cycles [1)]	≥3,000,000
Speed	≤4 m/s
Weight	1.3 kg

Table 2: 8CCS0015.11110-0 - Technical data

1) At an ambient temperature of 20°C and a flex radius of 65 mm

4 Wiring

4.1 Cable construction



Pos.	Quantity	Name	Note
1	1	Encoder cables	5x 2x 0.14 mm² + 1x 2x 0.5 mm²
2	1	12-pin female connector	-
3	1	15-pin male connector	-

Table 3: SinCos cables - Cable construction

4.2 Pinout

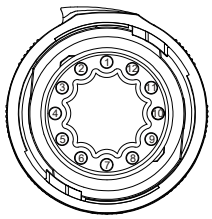
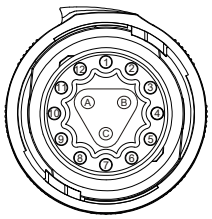
Male connector	Pin	Name	Function	Pin	Male connector
	1	+5 V	Encoder supply +5 V	1	
	2	---	---	2	
	3	---	---	3	
	4	Sense +5 V	Sensor input +5 V	C	
	5	Sense 0 V	Sensor input 0 V	6	
	6	---	---	4	
	7	COM (1)	Encoder supply 0 V	7	
	8	B	+ SIN	8	
	9	B\	- SIN	9	
	10	A	+ COS	10	
	11	A\	- COS	11	
	12	---	---	5	
		---	---	12	
		---	---	A	
		---	---	B	

Table 4: SinCos cables - Pinout

4.3 Cable diagram

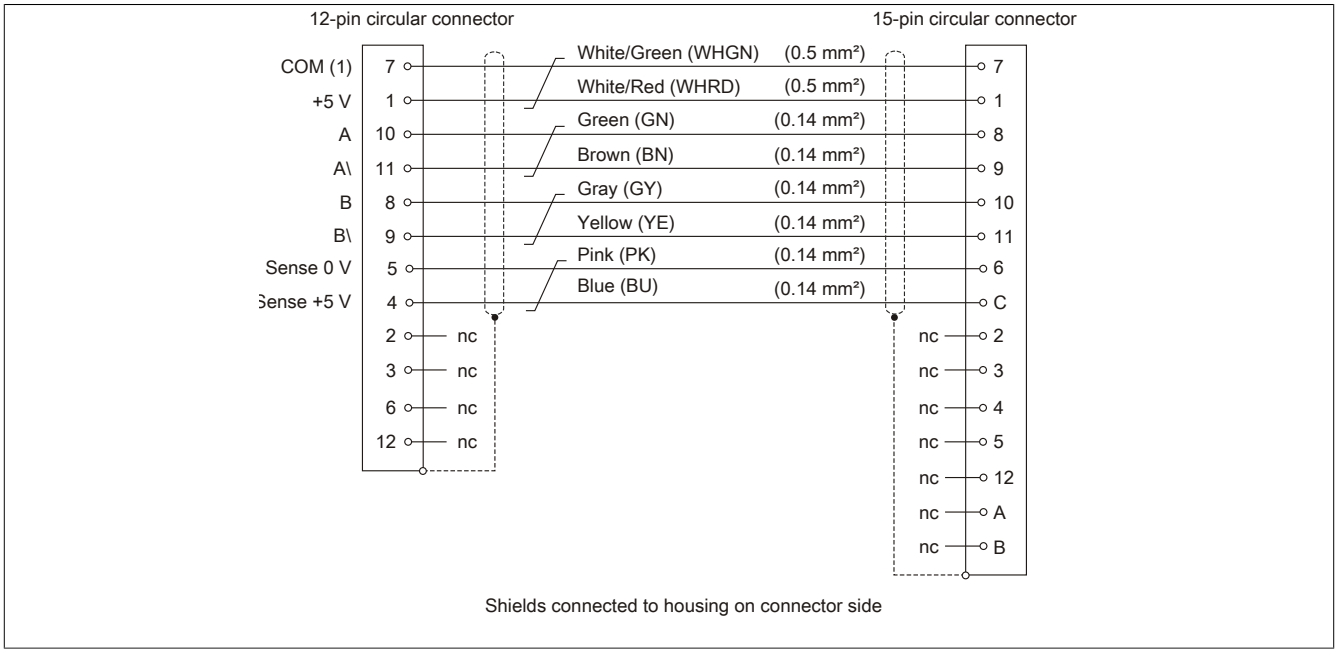


Figure 1: SinCos cables - Cable diagram