

8CCH0020.11120-0

1 General information

- Cables for connecting 8BVE ACOPOSmulti expansion modules and ACOPOSremote/ACOPOSmotor drive systems
- Hybrid connector system for secure connections

2 Order data

Model number	Short description	Figure
	8BVE / 8CVI connection cables	
8CCH0020.11120-0	Hybrid cable for connecting 8BVE to 8CVI or 8DI, length 20 m, 2x 2x 0.34 mm ² + 4x 0.75 mm ² + 5x 2.5 mm ² , 1x 15-pin female TYCO hybrid connector	

Table 1: 8CCH0020.11120-0 - Order data

3 Technical data

Product ID	8CCH0020.11120-0
General information	
Cable cross section	5x 2.5 mm ² + 4x 0.75 mm ² + 2x 2x 0.34 mm ² / 1.55- 100 LI
Durability	In preparation
Listed	UL AWM Style 20234, 80°C, 1000 V as well as CSA C22.2 No. 210.2 I/II A/B, FT1
Certification cULus	In preparation
Cable construction	
Power lines	
Quantity	5
Wire insulation	Special thermoplastic material
Wire colors	Black, red, green, white, yellow/green
Design	Tinned copper stranded wire
Diameter	2.5 mm ²
Shield	No
Stranding	No
Signal lines	
Quantity	4
Wire insulation	Special thermoplastic material
Wire colors	Pink, blue, violet, gray
Design	Tinned copper stranded wire
Diameter	0.75 mm ²
Shield	No
Stranding	No
Data lines	
Quantity	4
Wire insulation	Special thermoplastic material
Wire colors	Orange, white, yellow, blue
Design	Tinned copper stranded wire
Diameter	0.34 mm ²
Shield	Yes
Stranding	Yes
Cable stranding	With filler elements and foil banding
Complete shielding	Tinned copper braiding, optical coverage >85% and wrapped in isolating film
Outer sheathing	
Material	PUR
Color	Orange, similar to RAL 2003 flat
Labeling	In preparation
Connector	
Type	15-pin TYCO female hybrid connector
Connection cycles	>50
Contacts	15
Additional connectors	POWERLINK RJ45 male connector
EN 60529 protection	IP65

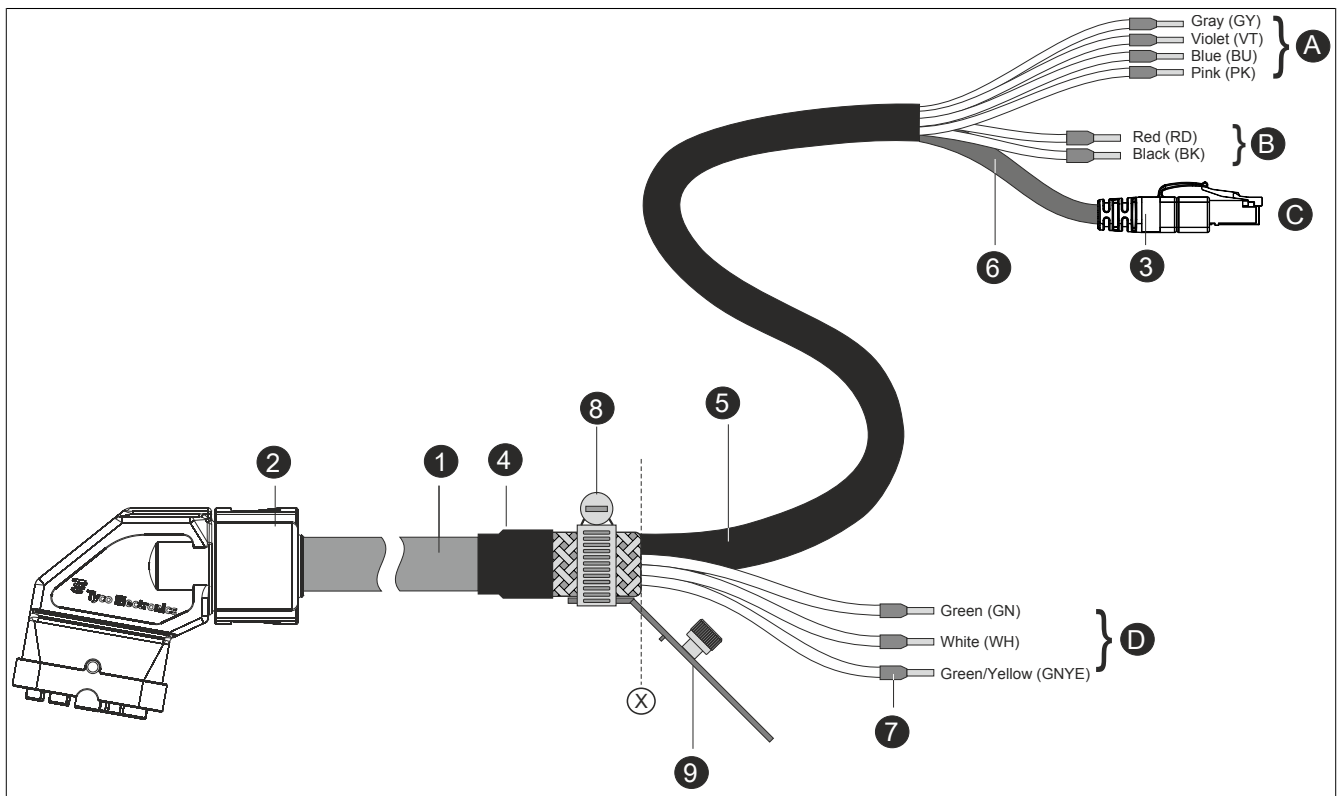
Table 2: 8CCH0020.11120-0 - Technical data

Product ID	8CCH0020.11120-0
Electrical characteristics	
Operating voltage	Power lines: ≤1000 V Signal lines: ≤1000 V Data lines: ≤100 V
Test voltage	
Wire/Wire	3 kV AC
Wire/Shield	3 kV AC
Current load	In preparation
Conductor resistance	
Power lines	≤0.16 Ω
Signal lines	≤0.52 Ω
Data lines	≤1.12 Ω
Insulation resistance	>25 GΩ
Environmental conditions	
Temperature	
Moving	-40 to 80°C
Static	-40 to 80°C
Mechanical characteristics	
Dimensions	
Length	20 m
Diameter	14.6 mm ±0.4 mm
Flex radius	
Single bend	>40 mm
Moving	≥140 mm
Drag chain data	
Acceleration	<4 m/s²
Flex cycles	≥5,000,000
Velocity	≤4 m/s
Weight	7 kg

Table 2: 8CCH0020.11120-0 - Technical data

4 Wiring

4.1 Cable construction



Pos.	Quantity	Name	Note
1	1	Hybrid cables	5x 1x 2.5 mm ² + 2x 2x 0.75 mm ² + 2x 2x 0.34 mm ² / 1.55- 100 LI
2	1	TE female hybrid connector	-
3	1	RJ45 connector	-
4	1	Heat shrink tubing	-
5	1	Heat shrink tubing	330 mm
6	1	Heat shrink tubing	-
7	9	Wire tip sleeves	-
8	1	Cable clamps	Ø 12-20 mm
9	1	Shield mounting	-
free cable length from point x			
A	4	770 mm	
B	2	510 mm	
C	1	710 mm	
D	3	140 mm	

Table 3: Hybrid cable (one-sided) - Cable construction

4.2 RJ45 connector - Pinout

Male connector	Pin	Name	Function
	1	RXD	Receive signal
	2	RXD\	Receive signal inverted
	3	TXD	Transmit signal
	4	-	-
	5	-	-
	6	TXD\	Transmit signal inverted
	7	-	-
	8	-	-

Table 4: RJ45 connector - Pinout

4.3 Cable diagram

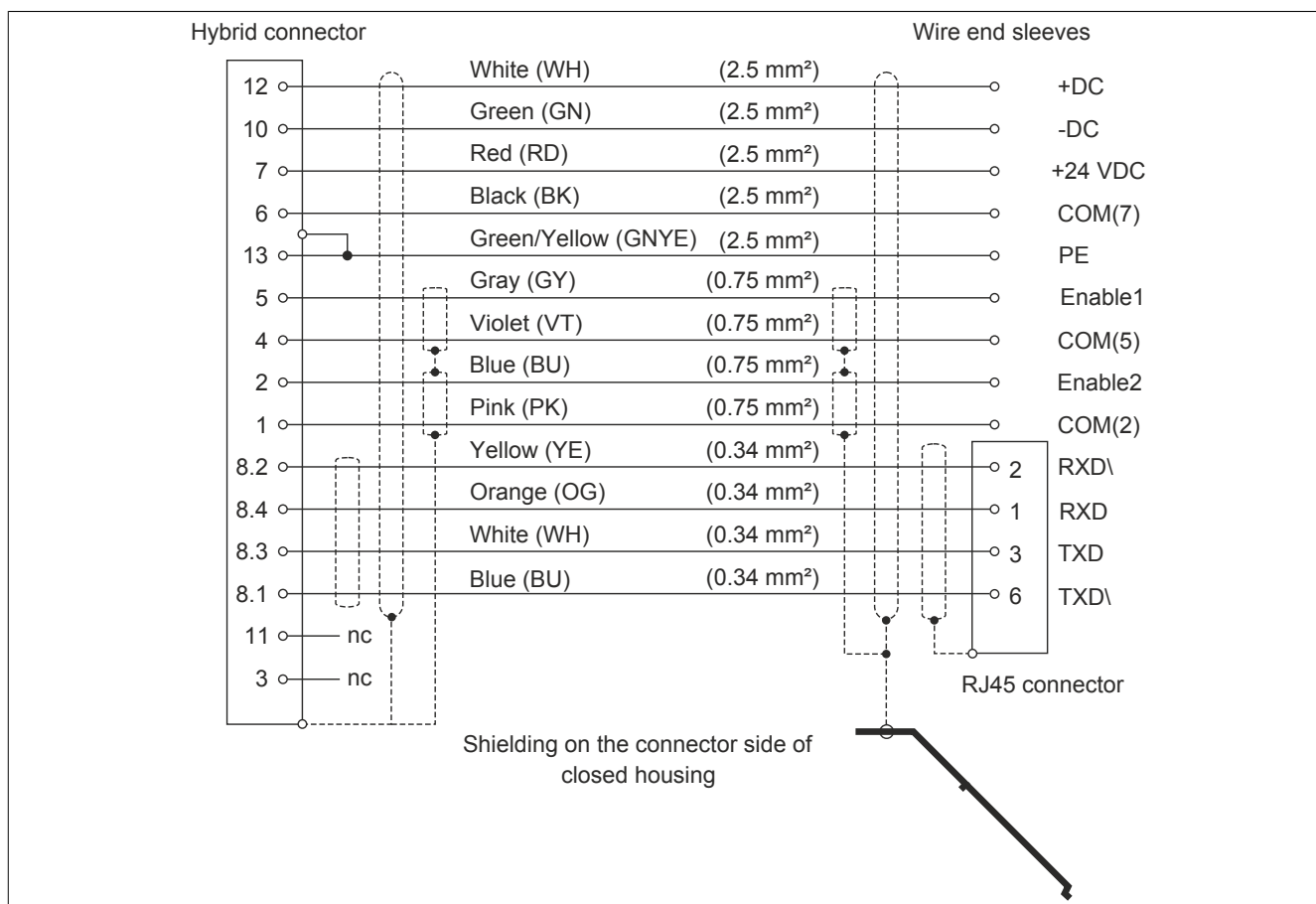


Figure 1: Hybrid cable (one-sided) - Cable diagram