8D1CH0002.11120-0

1 General information

- Can be used in cable drag chains
- Assembled specifically for use with ACOPOSmotor Compact

2 Order data

Order number	Short description	Figure
	Supply cables	
8D1CH0002.11120-0	ACOPOSmotor compact power supply cable, length 2 m, 2x 2.5 mm² + 1x (4x 0.34 mm²) + 1x (2x 0.34 mm²) + 1x 0.34 mm² + PA pipe 2.0 mm / 1.0 mm, 1x 9-pin female hybrid connector, can be used in cable drag chains	

Table 1: 8D1CH0002.11120-0 - Order data

3 Technical data

Order number	8D1CH0002.11120-0
General information	
Cable cross section	2x2.5 + 1x(4x0.34)St-C + 1x(2x0.34)C + 1x0.34qmm + PA pipe 2.0/1.0
Durability	Oil resistant per DIN EN 60811-404 Halogen-free per DIN EN 60754-1 Flame-retardant per DIN EN IEC 60332-1-2 Hydrolysis resistance per DIN EN 50396 Microbial resistance per DIN EN 50396 Silicone-free / PWIS per VW PV 3.7.10
Certification	E170315 cRUus AWM STYLE 20233 AWM I/II A/B 80°C 300 V FT1 [1]
Certifications	
CE	Yes
UKCA	Yes
UL	cULus E225616 Power conversion equipment
cULus	In preparation
Cable construction	
Outer jacket	
Material	TPU, flame-retardant, halogen-free
Color	Orange similar to RAL 2003
Connector	
Type	9-pin female hybrid connector
Mating cycles	<500
Contacts	9
Additional connectors	RJ45
Degree of protection per EN 60529	IP66/67 when connected
Electrical properties [1]	
Nominal current	20 A (power) 0.5 A (signal)
Operating voltage	Max. 58 VDC (power) Max. 30 VDC (signal)
Ambient conditions [1]	
Temperature	
Moving	-30°C to +80°C (drag chain: -20°C to +60°C)
Static	-40°C to +90°C
Mechanical properties [1]	
Dimensions	
Length	2 m
Diameter	11.7 mm ±0.3 mm
Bend radius	
Single bend	≥3x cable diameter
Moving	≥12.5x cable diameter

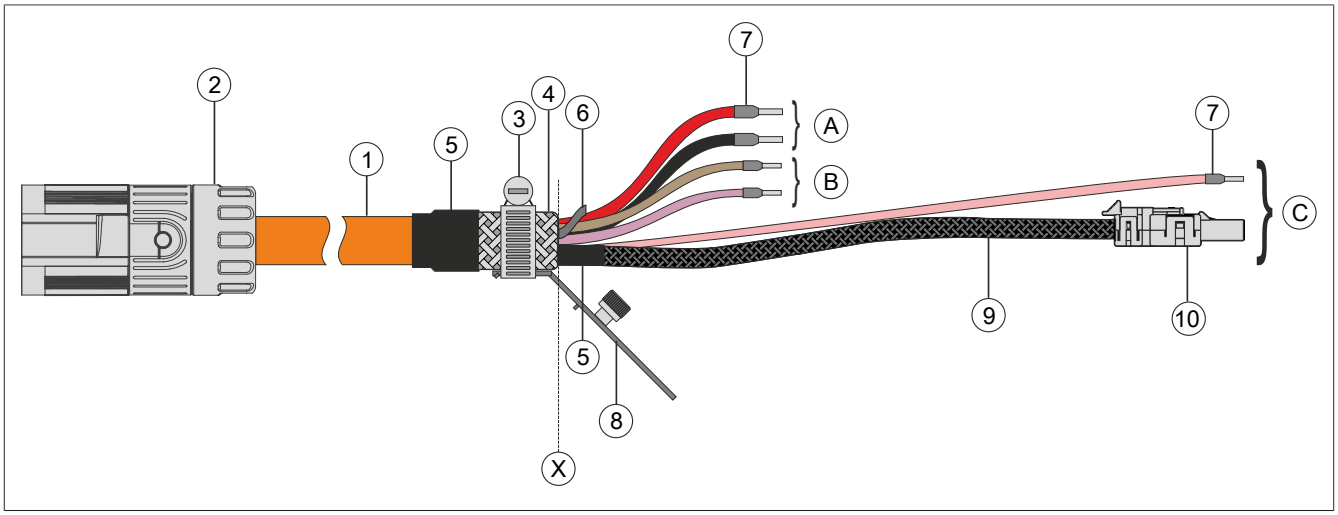
Table 2: 8D1CH0002.11120-0 - Technical data

Order number	8D1CH0002.11120-0
Drag chain data	
Acceleration	50 m/s² (depends on the length of the travel path)
Flex cycles	≥3,000,000
Velocity	Max. 300 m/min
Torsional strength	±30°/m
Weight	0.64 kg

Table 2: 8D1CH0002.11120-0 - Technical data

1) Values refer to the raw cable being used.

4 Cable construction



Pos.	Name	Note
1	Hybrid cable	2x 2.5 mm² + 1x (4x 0.34 mm²) + 1x (2x 0.34 mm²) + 1x 0.34 mm² + PA tube
2	9-pin female hybrid connector (female contact)	
3	Cable clamp	
4	Braided shield	
5	Self-adhesive heat shrink tubing	
6	Capillary line	
7	Wire end sleeve	
8	Shield fixing	
9	Braided sleeving	
10	Male RJ45 connector	

Table 3: Hybrid cables - Cable construction

Item	Quantity	Custom cable length from point x
A	2	140 mm
B	2	135 mm
C	2	715 mm

Table 4: Custom cable length

5 Cable diagram

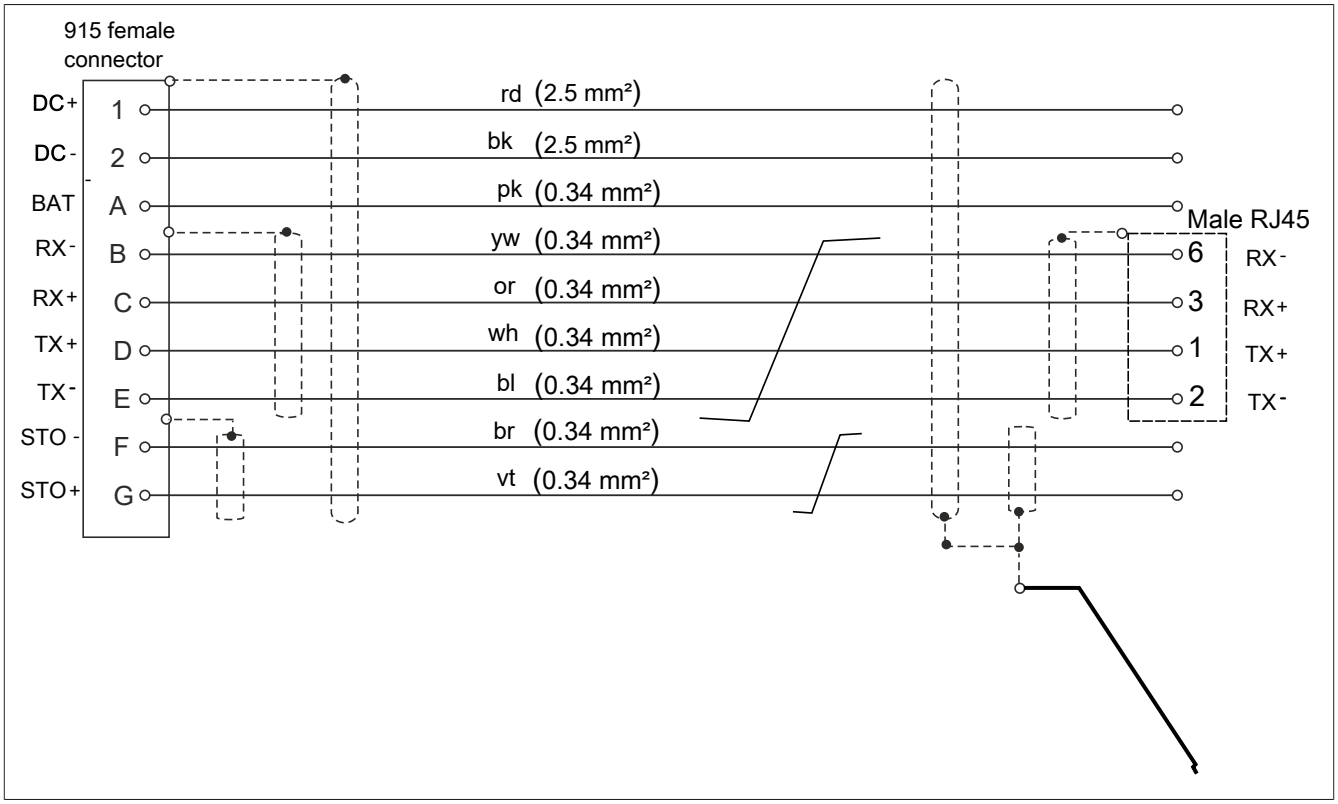
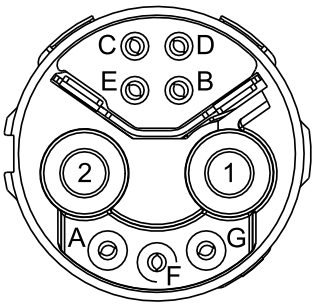
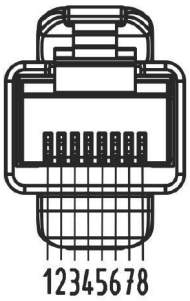


Figure 1: 8D1CHxxxx.11120-0 - Cable diagram

6 Pinout

915 connector 2+3+Bus female	Pin	Function	Color	Pin	RJ45 connector
	1	DC bus +	Red	---	
	2	DC bus -	Black	---	
	A	BAT[1)]	Pink	---	
	B	Receive signal inverted	---	6	
	C	Receive signal	---	3	
	D	Transmit signal	---	1	
	E	Transmit signal inverted	---	2	
	F	Enable signal -	Brown	---	
	G	Enable signal +	Violet	---	

1) Function BAT is currently not supported. The open cable end must be insulated by the customer.