

4 Technical data

4.1 Motor cables for multiple motors

4.1.1 Motor cable for 3 motors

Interface connector	X20.1; X20.2; X20.3
Lengths	7 m, 15 m, 25 m, 35 m, 50 m
Cross-section	3x 10 mm ²
Bending radius	100 mm for single bending
Suitable for use in a cable carrier	No
Load max.	3x 64 A
Connector type	HAN Modular
Outside diameter	27.5 mm, ±0.5 mm

4.1.2 Motor cable for 4 motors

Interface connector	X8; X81; X82; X83; X84
Lengths	3 m, 7 m, 10 m, 15 m, 20 m, 25 m, 30 m, 35 m, 50 m
Cross-section	3x 10 mm ² , 1x 6 mm ²
Bending radius	100 mm for single bending
Suitable for use in a cable carrier	No
Load max.	3x 64 A, 1x 40 A
Connector type	HAN Modular
Outside diameter	29.9 mm ±0.5 mm

4.1.3 Motor cable for 6 motors

Interface connector	X20
Lengths	3 m, 7 m, 10 m, 15 m, 20 m, 25 m, 30 m, 35 m, 50 m
Cross-section	3x 6 mm ² , 3x 2.5 mm ²
Bending radius	100 mm for single bending
Suitable for use in a cable carrier	No
Load max.	3x 40 A, 3x 20 A
Connector type	HAN Modular
Outside diameter	30 mm ±0.5 mm

4.1.4 Extensions

Interface connector	X30.1 flexible
Lengths	1.6 m, 2 m, 3 m, 4 m, 5 m, 6 m, 7 m, 8 m, 9 m, 10 m, 11 m, 12 m, 13 m, 14 m, 15 m, 16 m, 17 m, 18 m, 19 m, 20 m, 25 m, 30 m, 35 m
Cross-section	3x 6 mm ² , 3x 2.5 mm ²

Bending radius	250 mm for continuous bending
Suitable for use in a cable carrier	Yes
Load max.	3x 40 A, 3x 20 A
Connector type	HAN Modular
Outside diameter	30 mm \pm 0.5 mm

4.2 Motor cable for single motors

Interface connector	X7.1...X7.12
Cross-section	2.5 mm ² , 4 mm ² , 6 mm ²
Bending radius for 2.5 mm ²	120 mm for continuous bending
Bending radius for 4 mm ²	140 mm for continuous bending
Bending radius for 6 mm ²	160 mm for continuous bending
Suitable for use in a cable carrier	Yes
Load max. for 2.5 mm ²	20 A
Load max. for 4 mm ²	40 A
Load max. for 6 mm ²	64 A
Connector type	H-J1, H-J1.5
Outside diameter for 2.5 mm ²	10 mm
Outside diameter for 4 mm ²	12 mm
Outside diameter for 6 mm ²	16 mm

4.2.1 Extensions

Motor connector type 1 2.5 mm²

1.6 m, 2 m, 3 m, 4 m, 5 m, 6 m, 7 m, 8 m, 9 m, 10 m, 11 m, 12 m, 13 m 14 m, 15 m, 16 m, 17 m, 18 m, 19 m, 20 m, 25 m, 30 m, 35 m

4 mm²

1 m, 1.6 m, 2 m, 3 m, 4 m, 5 m, 6 m, 7 m, 8 m, 9 m, 10 m, 11 m, 12 m, 13 m 14 m, 15 m, 16 m, 17 m, 18 m, 19 m, 20 m, 25 m, 30 m, 35 m

Motor connector type 1.5 6 mm²

1 m, 1.6 m, 2 m, 3 m, 4 m, 5 m, 6 m, 7 m, 8 m, 9 m, 10 m, 11 m, 12 m, 13 m 14 m, 15 m, 16 m, 17 m, 18 m, 19 m, 20 m, 25 m, 30 m, 35 m

4.3 Data cable

Interface connector	X21 - X31
Cross-section	2 x 2 AWG24, 2x 1.5 mm ²
Lengths	1 m, 3 m, 7 m, 10 m, 15 m, 20 m, 25 m, 30 m, 35 m, 50 m
Bending radius	30 mm for single bending
Suitable for use in a cable carrier	No

Connector type	HAN Q12
Outside diameter	9 mm \pm 0.5 mm

4.3.1 2nd data cable

Interface connector	X21.1
Cross-section	2 x 2 AWG24, 2x 1.5 mm ²
Lengths	1 m, 3 m, 7 m, 10 m, 15 m, 20 m, 25 m, 30 m, 35 m, 50 m
Bending radius	30 mm for single bending
Suitable for use in a cable carrier	No
Connector type	HAN Q12
Outside diameter	9 mm \pm 0.5 mm

4.3.2 Extensions

Interface connector	X31.1
Cross-section	2 x 2 AWG24, 2x 1.5 mm ²
Lengths	1.6 m, 2 m, 3 m, 4 m, 5 m, 6 m, 7 m, 8 m, 9 m, 10 m, 11 m, 12 m, 13 m, 14 m, 15 m, 16 m, 17 m, 18 m, 19 m, 20 m, 25 m, 30 m, 35 m
Bending radius	100 mm for continuous bending
Suitable for use in a cable carrier	Yes
Connector type	HAN Q12
Outside diameter	10.6 mm \pm 0.3 mm

4.4 Resolver cable

Interface connector	XP
Cross-section	4 x 2 x 0.25 mm ²
Lengths	1.3 m, 2 m, 3 m, 4 m, 5 m, 6 m, 7 m, 8 m, 9 m, 10 m, 11 m, 12 m, 13 m, 14 m, 15 m, 16 m, 17 m, 18 m, 19 m, 20 m, 25 m, 30 m
Bending radius	80 mm for continuous bending
Suitable for use in a cable carrier	Yes
Connector type	M23, 12 contacts
Outside diameter	8 mm \pm 0.5 mm



The max. difference in cable length between the individual channels of the RDC box must not exceed 10 m.

4.4.1 Extensions

Interface connector	XPx.1
Cross-section	4 x 2 x 0.25 mm ²

Lengths	0.7 m, 1.4 m, 1.6 m, 2 m, 3 m, 4 m, 4.5 m, 5 m, 5.5 m, 6 m, 7 m, 7.5 m, 8 m, 9 m, 9.5 m, 10 m, 11 m, 11.5 m, 12 m, 13 m, 14 m, 15 m, 16 m, 17 m, 18 m, 19 m, 20 m
Bending radius	80 mm for continuous bending
Suitable for use in a cable carrier	Yes
Connector type	M23, 12 contacts
Outside diameter	8 mm \pm 0.5 mm