

## MOTION CONNECT 800PLUS

### MLFB-Ordering data

6FX8012-5DS51-1BB0



Figure similar

Client order no. :  
Order no. :  
Offer no. :  
Remarks :

Item no. :  
Consignment no. :  
Project :

### Electrical data

No. of cores x cross-section mm <sup>2</sup>	4x6 + 2x1.5C C
Test voltage, rms Power conductors	4.0 kV
Test voltage, rms Signal conductors	2.0 kV
Type with braking lead	Yes
Rated voltage V0/V according to EN 50395	600 V/1000 V

### Mechanical data

Type of connection cable engine side	Conector full thread
Connector size	1.5 / M40
Type of bolting	not relevant
Type of connection cable converter side	Connector SINAMICS S120 Booksize MoMo
Maximum cable outer diameter	17.3 mm
Length	11.0 m
Weight (without connector)	5.50 kg

### Static deployment

Smallest bending radius (fixed installation)	69.2 mm
Tensile stress, max. Fixed installation	50 N/mm <sup>2</sup> (7252 lbf/in <sup>2</sup> )
Torsional stress	Absolute 30°/m

### Dynamic deployment

Smallest bending radius(flexible installation in a cable carriers)	130.0 mm
Acceleration horizontal, max	50 m/s <sup>2</sup>
Maximum traversing velocity	300 m/min
Travel path	50 m
Number of bends, max.	10,000,000
Tensile load for moving cable, max.	20 N/mm <sup>2</sup> (2901 lbf/in <sup>2</sup> )



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## Technical data

### Ambient temperature

Operation with permanently installed cable	-50 ... 80 °C
	Module-end power connector 0 ... 55°C, Motor-end power connector -20 ... 80°C
Operation with moving cable	-20 ... 60 °C
	Module-end power connector 0 ... 55°C
Storage	-20 ... 80 °C
	Module-end power connector -20 ... 70°C, Motor-end power connector -20 ... 80°C

Kind of connection cable	Basis cable
Material of the cable sheath	PUR DESINA color orange RAL 2003
Type of insulation	CFC/halogen/silicone-free
Standard for behavior in fire: flame resistance	EN 60332-1-1 to 1-3
Oil resistance	EN 60811-2-1
Verification of suitability as authorisation for USA	UL 758
Verification of suitability as authorisation for Canada	CSA-C22.2-N.210.2-M90