



Figure similar

MOTION CONNECT 500

MLFB-Ordering data

6FX5012-5CS17-1FA0

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

Item no. :  
Consignment no. :  
Project :

Electrical data

|  |              |
|--|--------------|
| No. of cores x cross-section mm²         | 4x10 C       |
| Test voltage, rms Power conductors       | 4.0 kV       |
| Test voltage, rms Signal conductors      | 2.0 kV       |
| Type with braking lead                   | No           |
| 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                          | 3 / M58  |
| Type of bolting                         | not relevant   |
| Type of connection cable converter side | Connector for SINAMICS S120 Booksize MoMo, C/D types |
| Maximum cable outer diameter            | 20.0 mm  |
| Length                                  | 50.0 m   |
| Weight (without connector)              | 36.5 kg  |

Static deployment

|  |                         |
|--|-------------------------|
| Smallest bending radius (fixed installation)       | 50.0 mm                 |
| Tensile load for permanently installed cable, max. | 50 N/mm² (7252 lbf/in²) |
| Torsional stress                                   | Absolute 30°/m          |

Dynamic deployment

|  |                         |
|--|-------------------------|
| Smallest bending radius(flexible installation in a cable carriers) | 360.0 mm                |
| Acceleration horizontal, max                                       | 2 m/s²                  |
| Maximum traversing velocity  | 30 m/min                |
| Travel path  | 5 m                     |
| Number of bends, max.  | 100,000                 |
| Tensile load for moving cable, max.                                | 20 N/mm² (2901 lbf/in²) |



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Technical data

Ambient temperature

|   |   |
|---|---|
| Operation with permanently installed cable              | -20 ... 80 °C                           |
|   | Module-end power connector 0 ... 55°C   |
| Operation with moving cable                             | 0 ... 60 °C                             |
|   | Module-end power connector 0 ... 55°C   |
| Storage   | -20 ... 80 °C                           |
|   | Module-end power connector -20 ... 70°C |
| Kind of connection cable                                | Basis cable                             |
| Material of the cable sheath                            | PVC DESINA color orange RAL 2003        |
| Type of insulation                                      | CFC/silicone-free                       |
| Standard for behavior in fire: flame resistance         | EN 60332-1-1 to 1-3                     |
| Oil resistance  | EN 60811-2-1 (mineral oil only)         |
| Verification of suitability as authorisation for USA    | UL758                                   |
| Verification of suitability as authorisation for Canada | CSA-C22.2-N.210.2-M90                   |