



MOTION CONNECT 500

Article No. : 6FX5002-8QN21-1CG0

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

Item no. :  
Consignment no. :  
Project :

| Electrical data                          |                          |
|------------------------------------------|--------------------------|
| No. of cores x cross-section mm²         | 4x2,5 + 4x0,2 + 2x1,5C C |
| Test voltage, rms Power conductors       | 1.5 kV                   |
| Test voltage, rms Signal conductors      | 0.5 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                               | Connector SPEED-CONNECT                                      |
| Connector size                                                     | 1 / M23                                                      |
| Type of bolting                                                    | not relevant                                                 |
| Type of connection cable converter side                            | Wire ends with ferrules (OCC signal connector pre-assembled) |
| Maximum cable outer diameter                                       | 13.7 mm                                                      |
| Length                                                             | 26.0 m                                                       |
| Weight (without connector)                                         | 7.5 kg                                                       |
| Static deployment                                                  |                                                              |
| Smallest bending radius (fixed installation)                       | 33.2 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) | 133.0 mm                                                     |
| Acceleration horizontal, max                                       | 2.0 m/s²                                                     |
| Maximum traversing velocity                                        | 30.0 m/min                                                   |
| Travel path                                                        | 5 m                                                          |
| Number of bends, max.                                              | 100,000                                                      |
| Tensile load for moving cable, max.                                | 20 N/mm² (2901 lbf/in²)                                      |

| Technical data                                          |                                                              |
|---------------------------------------------------------|--------------------------------------------------------------|
| Ambient temperature                                     |                                                              |
| Operation with permanently installed cable              | -20.0 ... 80.0 °C<br>Module-end power connector 0 ... 55°C   |
| Operation with moving cable                             | 0.0 ... 60.0 °C<br>Module-end power connector 0 ... 55°C     |
| Storage                                                 | -20.0 ... 80.0 °C<br>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                                        |