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## Overview (continued)



Example: MOTION-CONNECT 300, signal cable for brake connection on SIMOTICS S-1FL6 Low Inertia servomotors



Example: MOTION-CONNECT 300, signal cable for brake connection on SIMOTICS S-1FL6 High Inertia servomotors

For Selection and Ordering Data please refer to section "System overview" "SINAMICS V90 basic servo drive system" from page 1/10.

## Technical specifications (continued)

| Product name | **MOTION-CONNECT 300 signal cable for brake connection** | |
|---|---|---|
| | SINAMICS V90 200 ... 240 V 1 AC/3 AC – SIMOTICS S-1FL6 Low Inertia, 0.05 kW ... 1 kW | SINAMICS V90 200 ... 240 V 1 AC/3 AC – SIMOTICS S-1FL6 Low Inertia, 1.5 kW ... 2 kW<br>SINAMICS V90 380 ... 480 V 3 AC – SIMOTICS S-1FL6 High Inertia, 0.4 kW ... 7 kW |
| Type | 6FX3002-5BK02-.... | 6FX3002-5BL03-.... |
| **No. of cores** | 2 | 2 |
| **Degree of protection** motor side (when closed and connected) | IP20 | IP65 |
| **Certificate of suitability** | | |
| • RoHS | Yes | Yes |
| • UL | cURus | No UL for motor side connector |
| • CE | Not required | Not required |
| **Rated voltage $U_0/U$** | 30 V/30 V | 30 V/30 V |
| **Test voltage, rms** | 500 V | 500 V |
| **Operating temperature on the surface** | | |
| • Fixed installation | -25 … +80 °C | -25 … +80 °C |
| **Tensile stress, max.** | | |
| • Fixed installation | 50 N/mm$^2$ | 50 N/mm$^2$ |
| • Flexible installation | 20 N/mm$^2$ | 20 N/mm$^2$ |
| **Smallest bending radius** | | |
| • Fixed installation | 6 × diameter | 6 × diameter |
| • Flexible installation | 155 mm | 155 mm |
| **Torsional stress** | Absolute 30°/m | Absolute 30°/m |
| **Bending** | 100000 | 1000000 |
| **Insulation material, incl. jacket** | PVC | PVC |
| **Oil resistance** | EN 60811-2-1 | EN 60811-2-1 |
| **Outer jacket** | PVC | PVC |
| **Flame-retardant** | EN 60332-1-1 to 1-3 | EN 60332-1-1 to 1-3 |