

## Overview



Example: MOTION-CONNECT 300, power cable for SIMOTICS S-1FL6 Low Inertia servomotors



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For Selection and Ordering Data please refer to section "System overview" "SINAMICS V90 basic servo drive system" from page 1/9.

## Technical specifications

Product name	<b>MOTION-CONNECT 300 power cable</b> 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 SINAMICS V90 380 ... 480 V 3 AC – SIMOTICS S-1FL6 High Inertia, 0.4 kW ... 7 kW
Type	6FX3002-5CK01-....	6FX3002-5CL02-.... 6FX3002-5CL12-.... 6FX3002-5CK32-....
<b>No. of cores</b>	4	4
<b>Degree of protection</b> motor side (when closed and connected)	IP20	IP65
<b>Certificate of suitability</b>		
• RoHS	Yes	Yes
• UL	cURus	No UL for motor side connector
• CE	Yes	Yes
<b>Rated voltage <math>U_0/U</math></b>	300 V/500 V	600 V/1000 V
<b>Test voltage, rms</b>	4 kV	4 kV
<b>Operating temperature on the surface</b>		
• Fixed installation	-25 ... +80 °C	-25 ... +80 °C
<b>Tensile stress, max.</b>		
• Fixed installation	50 N/mm <sup>2</sup>	50 N/mm <sup>2</sup>
• Flexible installation	20 N/mm <sup>2</sup>	20 N/mm <sup>2</sup>
<b>Smallest bending radius</b>		
• Fixed installation	6 × diameter	6 × diameter
• Flexible installation	155 mm	155 mm
<b>Torsional stress</b>	Absolute 30°/m	Absolute 30°/m
<b>Bending</b>	100000	100000
<b>Insulation material, incl. jacket</b>	PVC	PVC
<b>Oil resistance</b>	EN 60811-2-1	EN 60811-2-1
<b>Outer jacket</b>	PVC	PVC
<b>Flame-retardant</b>	EN 60332-1-1 to 1-3	EN 60332-1-1 to 1-3