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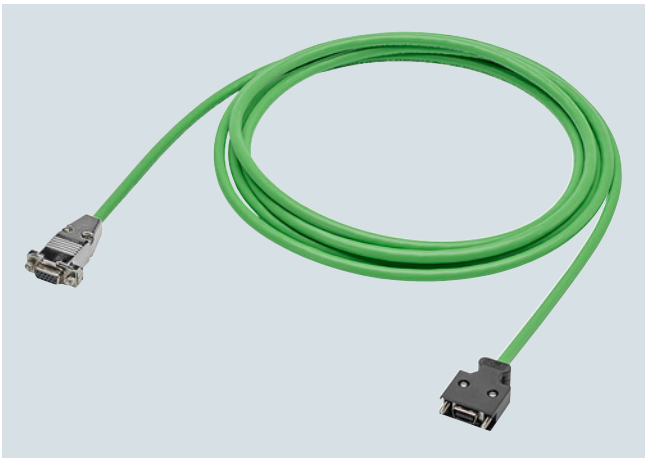
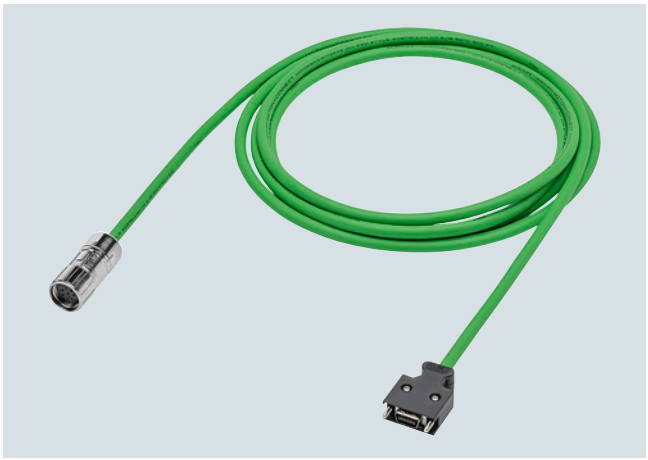
Pre-assembled signal cables for SINAMICS V90

Overview



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



Example: MOTION-CONNECT 300, signal cable for encoder connection for 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

Product name	**MOTION-CONNECT 300 signal cable for encoder 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 SINAMICS V90 380 ... 480 V 3 AC – SIMOTICS S-1FL6 High Inertia, 0.4 kW ... 7 kW
Type	6FX3002-2DB20-.... 6FX3002-2CT20-....	6FX3002-2DB10-.... 6FX3002-2DB12-.... 6FX3002-2CT12-....
No. of cores	10	10
Degree of protection motor side (when closed and connected)	IP20	IP65
Certificate of suitability		
• RoHS	Yes	Yes
• UL	cURus	cURus (for 6FX3002-2CT12-.... 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