

Assembled signal cables for dynamic application

Basic cables for the use on SIEMENS drive systems (DRIVE-CLiQ)

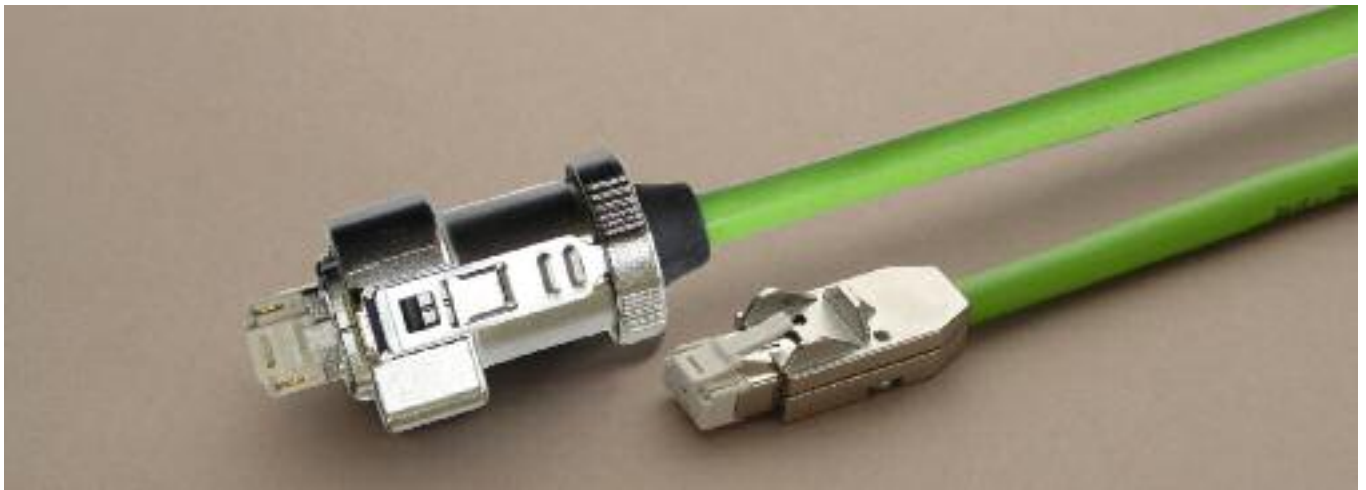


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the following
side

Use

This assembled high-class signal cable was especially designed for applications with high end mechanical requests. The special PUR jacket is designed for several applications in industrial environments in the machinery industry and plant engineering.

Special features

These assemblies could be manufactured in different length and also with customized modifications.

Advice

Please take note of the installation instructions for cables in cable chains on page DL 99.1 and the instructions of the motor and drive manufacturers regarding the maximum cable length.

Cable construction

Conductor :	0,15 mm ² bare copper wire, 19-wires 0,38 mm ² tinned copper braid 19-wires
Conductor insulation:	Polyolefin
Total shield:	plastic coated aluminium foil tinned copper braid
Cover:	≥85%
Jacket material:	PUR
Jacket colour:	green

Construction (2x0,38mm²+2x2x0,15mm²)

Colourcode	
Pair 0,38mm ² :	red + black
Pair 1 0,15mm ² :	green + yellow
Pair 2 0,15mm ² :	pink + blue

Connector specifications

RJ45-connector CAT 5	
material PBT/brass nickel-plated	
contacts 30μ" Au/Ni	
Max. voltage:	50V DC/35V AC
Operating temperature:	-20°C to +120°C
Number of connections:	1000

Technical specifications

Temperature range	
Static:	-20°C to +80°C
Dynamic:	-20°C to +60°C
Bending radius	
Static:	5x outer diameter
Dynamic:	15x outer diameter
Maximum acceleration:	5 m/s ²
Bending cycle:	2 Mio. at ≥15x o.d.
Max. operating voltage:	30 V
Test voltage:	500 V / 50 Hz / 1 min
Isolation resistance:	≥1 GOhm x km
Conductor resistance	
Conductor 0,15mm ²	≤135 Ohm/km
Conductor 0,38mm ²	≤62 Ohm/km

Impedance 0,15 mm² pairs
from 1 MHz to 100 MHz 100±15 Ohm

Operating capacity 0,15 mm² pairs
at 800 Hz Nom. 50 nF/km

Registrations/Approvals

UL/CSA



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Siemens- description	SANGEL- description	SANGEL- part-number	connector side A service pack	cable	connector side B service pack
6FX8002-2DC10	2DC10 PUR trailing application	1-000000-05043	1-000000-05088	0-000000-08590 p. DL 5.1.1	1-000000-03857 p. DS 1.3