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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Bus system cable - VS-OE-OE-93G-100,0 - 1419152

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Assembled EtherCAT<sup>®</sup> cable, shielded, star quad, AWG 22 stranded (7-wire), RAL 6018 (traffic red), 4-pos., by the meter, length: 100 m



### Key commercial data

Packing unit	1 PCE
Catalog page	Page 314 (PC-2011)
GTIN	 4 046356 540766
Custom tariff number	85444290
Country of origin	GERMANY

### Technical data

#### Mechanical characteristics

Number of positions	4
Shielded	Yes
Cable diameter	6.50 mm
Cable structure	1x4xAWG22/7; SF/TQ
Smallest bending radius, fixed installation	min. 19.5 mm (cable, fixed installation)
Smallest bending radius, movable installation	min. 45.5 mm (cable, flexible installation)
Length of cable	100 m
Ambient temperature (operation)	-40 °C ... 70 °C (cable, fixed installation)
Ambient temperature (operation)	-40 °C ... 70 °C (cable, flexible installation)

#### Material data

Outer sheath, material	PVC
External sheath, color	green-yellow RAL 6018

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### Technical data

#### Line characteristics

Cable type	PROFINET
UL AWM style	21694
Cable structure	1x4xAWG22/7; SF/TQ
Conductor cross section	4x 0.34 mm <sup>2</sup>
AWG signal line	22
Conductor structure signal line	7x 0.25 mm
Core diameter including insulation	approx. 1.5 mm
External cable diameter	6.5 mm ± 0.2 mm
Wire colors	White, yellow, blue, orange
External sheath, color	Green RAL 6018
Transmission medium	Copper
Insulation resistance	≥ 500 MΩ*km
Conductor resistance	≤ 120 Ω/km
Transmission characteristics (category)	CAT5 (IEC 11801:2002), CAT5e (TIA 568B:2001)
Working capacitance	52 pF
Wave impedance	100 Ω ± 15 Ω (At 100 MHz)
Signal runtime	5.3 ns/m
Coupling resistance	≤ 20.00 mΩ/m
Nominal voltage, conductor	600 V
Test voltage Core/Core	2000 V (50 Hz, 1 min.)
Test voltage Core/Shield	2000 V (50 Hz, 1 min.)
Overall twist	Star quad
Shielding	Aluminum-coated foil, tinned copper braided shield
Optical shield covering	85 %
Outer sheath, material	PVC
Material, inner sheath	PVC
Material conductor insulation	PE
Conductor material	Tin-plated Cu litz wires
Cable weight	67 kg/km
Minimum bending radius, fixed installation	3 x D
Minimum bending radius, flexible installation	7 x D
Flame resistance	According to UL 1685 (CSA FT 4)
Resistance to oil	Resistant to oil to a limited extent
Other resistance	UV resistant According to UL 1581, Section 1200
Ambient temperature (operation)	-40 °C ... 70 °C (cable, fixed installation)
Ambient temperature (operation)	-40 °C ... 70 °C (cable, flexible installation)

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### Classifications

#### ETIM

ETIM 2.0	EC000830
ETIM 3.0	EC000830
ETIM 4.0	EC002599
ETIM 5.0	EC000830

#### UNSPSC

UNSPSC 11	26121604
UNSPSC 12.01	26121616
UNSPSC 13.2	26121616
UNSPSC 6.01	26121616
UNSPSC 7.0901	26121616

#### eCl@ss

eCl@ss 4.0	27060307
eCl@ss 4.1	27060307
eCl@ss 5.0	27061801
eCl@ss 5.1	27060307
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801