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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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Cable ring, PUR halogen-free black, 3-pos., conductor colors: Brown/blue/black, cable length: 100 m

### Key commercial data

Packing unit	1 PCE
Catalog page	Page 198 (PC-2011)
GTIN	4 017918 814045
Custom tariff number	85444995
Country of origin	GERMANY

#### Technical data

#### General data

Number of positions	3
Length of cable	100 m

#### Conductor data

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	Li9Y11Y
UL AWM style	20549
Conductor cross section	3x 0.34 mm² (signal line)
AWG signal line	22
Conductor structure signal line	42x 0.10 mm
Core diameter including insulation	1.27 mm ±0.02 mm (signal line)
Thickness, insulation	≥ 0.21 mm (Core insulation)
Thickness, insulation	approx. 0.8 mm (Outer cable sheath)
Wire colors	brown, blue, black
Overall twist	3 wires, twisted



## Technical data

#### Conductor data

Smallest bending radius, fixed installation         22 mm           Smallest bending radius, movable installation         44 mm           Number of bending cycles         4000000           Bending radius         44 mm           Fraversing path         10 m           Fraversing rate         3 m/s           Acceleration         10 m/s²           Cable weight         26 kg/km           Duter sheath, material         PUR           Material conductor insulation         PP           Conductor material         Bare Cu litz wires           Insulation resistance         ≥ 100 GΩ*km (at 20 °C)           Conductor resistance         max. 58 Ω/km (at 20 °C)           Nominal voltage, conductor         ≥ 300 V           Feet voltage, conductor         ≥ 3000 V           Special properties         Flexible cable conduit capable           Special properties         Filexible cable conduit capable           Special properties         Free of substances which would hinder coating with paint or varnish later resistance           Halogen-free         in accordance with DIN UL-Style 20549           Halogen-free         in accordance with DIN VED 0472 part 815           Resistance to oil         in accordance with DIN EN 608811-2-1           Other resistance         hydrolysis	External sheath, color	Black-gray RAL 7021
Smallest bending radius, movable installation  Aumber of bending cycles  Bending radius  44 mm  Traversing path  10 m  Traversing rate  3 m/s  Acceleration  10 m/s²  Cable weight  Duter sheath, material  Bare Cu litz wires  Conductor insulation  PP  Conductor material  Bare Cu litz wires  2 100 GΩ*km (at 20 °C)  Conductor resistance  Conductor resistance  Conductor resistance  Conductor sistance  Conductor sistant sin accordance with DIN EN ISO 4892-2-A  Conductor sistance  Conduct	External cable diameter D	4.4 mm ±0.15 mm
Aumber of bending cycles   Aumonomy	Smallest bending radius, fixed installation	22 mm
Bending radius     44 mm       Fraversing path     10 m       Fraversing rate     3 m/s       Acceleration     10 m/s²       Cable weight     26 kg/km       Duter sheath, material     PUR       Material conductor insulation     PP       Conductor material     Bare Cu litz wires       Insulation resistance     ≥ 100 GΩ*km (at 20 °C)       Conductor resistance     max. 58 Ω/km (at 20 °C)       Voluminal voltage, conductor     ≤ 300 V       Sepecial properties     Flexible cable conduit capable       Special properties     Silicone-free       Special properties     Silicone-free       Special properties     Free of substances which would hinder coating with paint or varnish in accordance with DIN UL-Style 20549       Halogen-free     in accordance with DIN VDE 0472 part 815       Resistance to oil     in accordance with DIN EN 60811-2-1       Other resistance     hydrolysis and microbe resistant       Other resistance     partly UV-resistant in accordance with DIN EN ISO 4892-2-A       Ambient temperature (operation)     -40 °C 80 °C (cable, fixed installation)	Smallest bending radius, movable installation	44 mm
Traversing path  Traversing rate  3 m/s  Acceleration  10 m/s²  Cable weight  26 kg/km  Duter sheath, material  PUR  Material conductor insulation  PP  Conductor material  Bare Cu litz wires  Bare Cu litz wires  2 100 GΩ*km (at 20 °C)  Conductor resistance  2 100 GΩ*km (at 20 °C)  Conductor resistance  Material voltage, conductor  Fest voltage, conductor  Special properties  Special properties  Special properties  Free of substances which would hinder coating with paint or varnish  The material in accordance with DIN VDE 0472 part 815  Resistance to oil  The presistance  Highly resistant to acids, alkaline solutions and solvents  Other resistance  Partly UV-resistant in accordance with DIN EN 60 8492-2-A  Ambient temperature (operation)  10 m/s²  2 6 kg/km  2 6 kg/km  2 6 kg/km  2 7 C (cable, fixed installation)	Number of bending cycles	4000000
Traversing rate  3 m/s Acceleration  10 m/s²  26 kg/km  Duter sheath, material  PUR  Material conductor insulation  PP Conductor material  Bare Cu litz wires  conductor resistance  2 100 GΩ*km (at 20 °C)  Conductor resistance  max. 58 Ω/km (at 20 °C)  Conductor resistance  Nominal voltage, conductor  Fest voltage, conductor  Special properties  Flexible cable conduit capable  Special properties  Special properties  Free of substances which would hinder coating with paint or varnish  Flame resistance  in accordance with DIN UL-Style 20549  Halogen-free  Resistance to oil  in accordance with DIN VED 0472 part 815  Resistance to oil  in accordance with DIN NED 60811-2-1  Dither resistance  hydrolysis and microbe resistant  Dither resistance  partly UV-resistant in accordance with DIN EN ISO 4892-2-A  Ambient temperature (operation)  -40 °C 80 °C (cable, fixed installation)	Bending radius	44 mm
Acceleration  10 m/s²  26 kg/km  Duter sheath, material  PUR  Material conductor insulation  PP  Conductor material  Bare Cu litz wires  conductor resistance  ≥ 100 GΩ*km (at 20 °C)  Conductor resistance  max. 58 Ω/km (at 20 °C)  Conductor resistance  Nominal voltage, conductor  Sepecial properties  Flexible cable conduit capable  Special properties  Special properties  Special properties  Free of substances which would hinder coating with paint or varnish  Flame resistance  in accordance with DIN UL-Style 20549  Halogen-free  Resistance to oil  in accordance with DIN EN 60811-2-1  Other resistance  hydrolysis and microbe resistant  Date resistance with DIN EN ISO 4892-2-A  Ambient temperature (operation)  10 m/s²  26 kg/km  PUR  PUR  PUR  PUR  PUR  PUR  PUR  PU	Traversing path	10 m
Cable weight  Cable weight  Duter sheath, material  PUR  Material conductor insulation  PP  Conductor material  Bare Cu litz wires  conductor resistance  □ 100 GΩ*km (at 20 °C)  max. 58 Ω/km (at 20 °C)  Conductor resistance  □ 2 300 V  Fest voltage, conductor  Special properties  Flexible cable conduit capable  Special properties  Special properties  Free of substances which would hinder coating with paint or varnish  in accordance with DIN UL-Style 20549  Halogen-free  Resistance to oil  in accordance with DIN VDE 0472 part 815  Resistance  Highly resistant to acids, alkaline solutions and solvents  Other resistance  Ambient temperature (operation)  26 kg/km  PUR  PUR  PUR  PUR  PUR  PUR  PUR  PU	Traversing rate	3 m/s
Duter sheath, material       PUR         Material conductor insulation       PP         Conductor material       Bare Cu litz wires         Insulation resistance       ≥ 100 GΩ*km (at 20 °C)         Conductor resistance       max. 58 Ω/km (at 20 °C)         Nominal voltage, conductor       ≤ 300 V         Fest voltage, conductor       ≥ 3000 V         Special properties       Flexible cable conduit capable         Special properties       Silicone-free         Special properties       Free of substances which would hinder coating with paint or varnish in accordance with DIN UL-Style 20549         Halogen-free       in accordance with DIN VDE 0472 part 815         Resistance to oil       in accordance with DIN EN 60811-2-1         Other resistance       Highly resistant to acids, alkaline solutions and solvents         Other resistance       hydrolysis and microbe resistant         Other resistance       partly UV-resistant in accordance with DIN EN ISO 4892-2-A         Ambient temperature (operation)       40 °C 80 °C (cable, fixed installation)	Acceleration	10 m/s²
Material conductor insulation  PP Conductor material  Bare Cu litz wires  ≥ 100 GΩ*km (at 20 °C)  Conductor resistance  max. 58 Ω/km (at 20 °C)  Nominal voltage, conductor  ≥ 300 V  Fest voltage, conductor  Special properties  Flexible cable conduit capable  Special properties  Special properties  Free of substances which would hinder coating with paint or varnish in accordance with DIN UL-Style 20549  Halogen-free  Resistance to oil  in accordance with DIN VDE 0472 part 815  Resistance to oil  in accordance with DIN EN 60811-2-1  Other resistance  Highly resistant to acids, alkaline solutions and solvents  hydrolysis and microbe resistant  Other resistance  Ambient temperature (operation)  PP Bare Cu litz wires  ≥ 100 GΩ*km (at 20 °C)  max. 58 Ω/km (at 20 °C)  max. 58 Ω/km (at 20 °C)  ⇒ 300 V  Flexible cable conduit capable  Silicone-free  Free of substances which would hinder coating with paint or varnish in accordance with DIN UL-Style 20549  in accordance with DIN VDE 0472 part 815  Resistance to oil  in accordance with DIN EN 60811-2-1  Highly resistant to acids, alkaline solutions and solvents  hydrolysis and microbe resistant  Other resistance  Ambient temperature (operation)  40 °C 80 °C (cable, fixed installation)	Cable weight	26 kg/km
Bare Cu litz wires  conductor material  Bare Cu litz wires  ≥ 100 GΩ*km (at 20 °C)  conductor resistance  max. 58 Ω/km (at 20 °C)  conductor resistance  max. 58 Ω/km (at 20 °C)  conductor  ≥ 300 V  conductor  Est voltage, conductor  Special properties  Special properties  Special properties  Special properties  Special properties  Free of substances which would hinder coating with paint or varnish in accordance with DIN UL-Style 20549  Halogen-free  Halogen-free  in accordance with DIN VDE 0472 part 815  Resistance to oil  in accordance with DIN EN 60811-2-1  Other resistance  Highly resistant to acids, alkaline solutions and solvents  Other resistance  hydrolysis and microbe resistant  Other resistance  partly UV-resistant in accordance with DIN EN ISO 4892-2-A  Ambient temperature (operation)  -40 °C 80 °C (cable, fixed installation)	Outer sheath, material	PUR
Special properties Special pro	Material conductor insulation	PP
Conductor resistance       max. 58 Ω/km (at 20 °C)         Nominal voltage, conductor       ≤ 300 V         Special properties       Flexible cable conduit capable         Special properties       Silicone-free         Special properties       Free of substances which would hinder coating with paint or varnish in accordance with DIN UL-Style 20549         Halogen-free       in accordance with DIN VDE 0472 part 815         Resistance to oil       in accordance with DIN EN 60811-2-1         Other resistance       Highly resistant to acids, alkaline solutions and solvents         Other resistance       hydrolysis and microbe resistant         Other resistance       partly UV-resistant in accordance with DIN EN ISO 4892-2-A         Ambient temperature (operation)       -40 °C 80 °C (cable, fixed installation)	Conductor material	Bare Cu litz wires
Nominal voltage, conductor  Special properties  Flexible cable conduit capable  Special properties  Special properties  Special properties  Special properties  Free of substances which would hinder coating with paint or varnish  Flame resistance  In accordance with DIN UL-Style 20549  Halogen-free  In accordance with DIN VDE 0472 part 815  Resistance to oil  In accordance with DIN EN 60811-2-1  Other resistance  Highly resistant to acids, alkaline solutions and solvents  Other resistance  Dither resistance  Partly UV-resistant in accordance with DIN EN ISO 4892-2-A  Ambient temperature (operation)  -40 °C 80 °C (cable, fixed installation)	Insulation resistance	≥ 100 GΩ*km (at 20 °C)
Fest voltage, conductor  Special properties  Flexible cable conduit capable  Special properties  Silicone-free  Special properties  Free of substances which would hinder coating with paint or varnish  Flame resistance  In accordance with DIN UL-Style 20549  Halogen-free  In accordance with DIN VDE 0472 part 815  Resistance to oil  Other resistance  Highly resistant to acids, alkaline solutions and solvents  Other resistance  Deter resistance  Deter resistance  Partly UV-resistant in accordance with DIN EN ISO 4892-2-A  Ambient temperature (operation)  -40 °C 80 °C (cable, fixed installation)	Conductor resistance	max. 58 Ω/km (at 20 °C)
Flexible cable conduit capable  Special properties  Silicone-free  Special properties  Free of substances which would hinder coating with paint or varnish in accordance with DIN UL-Style 20549  Halogen-free  in accordance with DIN VDE 0472 part 815  Resistance to oil  in accordance with DIN EN 60811-2-1  Other resistance  Highly resistant to acids, alkaline solutions and solvents  Other resistance  Dither resistance  partly UV-resistant in accordance with DIN EN ISO 4892-2-A  Ambient temperature (operation)  Flexible cable conduit capable  Silicone-free  Free of substances which would hinder coating with paint or varnish in accordance with DIN UL-Style 20549  in accordance with DIN EN 60811-2-1  Highly resistant to acids, alkaline solutions and solvents  Dydrolysis and microbe resistant  Other resistance  Ambient temperature (operation)  -40 °C 80 °C (cable, fixed installation)	Nominal voltage, conductor	≤ 300 V
Special properties Special properties Free of substances which would hinder coating with paint or varnish in accordance with DIN UL-Style 20549 Halogen-free In accordance with DIN VDE 0472 part 815 Resistance to oil In accordance with DIN EN 60811-2-1 Other resistance Highly resistant to acids, alkaline solutions and solvents Other resistance Other resistance Partly UV-resistant in accordance with DIN EN ISO 4892-2-A Ambient temperature (operation)  Silicone-free Free of substances which would hinder coating with paint or varnish in accordance with DIN UL-Style 20549 in accordance with DIN EN 60811-2-1 Dither resistance Partly UV-resistant in accordance with DIN EN ISO 4892-2-A Ambient temperature (operation)  -40 °C 80 °C (cable, fixed installation)	Test voltage, conductor	≥ 3000 V
Free of substances which would hinder coating with paint or varnish in accordance with DIN UL-Style 20549  Halogen-free in accordance with DIN VDE 0472 part 815  Resistance to oil in accordance with DIN EN 60811-2-1  Other resistance Highly resistant to acids, alkaline solutions and solvents  Other resistance hydrolysis and microbe resistant  Other resistance partly UV-resistant in accordance with DIN EN ISO 4892-2-A  Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation)	Special properties	Flexible cable conduit capable
Flame resistance in accordance with DIN UL-Style 20549 Halogen-free in accordance with DIN VDE 0472 part 815 Resistance to oil in accordance with DIN EN 60811-2-1 Other resistance Highly resistant to acids, alkaline solutions and solvents Other resistance hydrolysis and microbe resistant Other resistance partly UV-resistant in accordance with DIN EN ISO 4892-2-A Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation)	Special properties	Silicone-free
Halogen-free in accordance with DIN VDE 0472 part 815 Resistance to oil in accordance with DIN EN 60811-2-1 Dither resistance Highly resistant to acids, alkaline solutions and solvents Dither resistance hydrolysis and microbe resistant Dither resistance partly UV-resistant in accordance with DIN EN ISO 4892-2-A Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation)	Special properties	Free of substances which would hinder coating with paint or varnish
Resistance to oil in accordance with DIN EN 60811-2-1  Other resistance Highly resistant to acids, alkaline solutions and solvents  Other resistance hydrolysis and microbe resistant  Other resistance partly UV-resistant in accordance with DIN EN ISO 4892-2-A  Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation)	Flame resistance	in accordance with DIN UL-Style 20549
Dither resistance  Highly resistant to acids, alkaline solutions and solvents  hydrolysis and microbe resistant  Dither resistance  partly UV-resistant in accordance with DIN EN ISO 4892-2-A  Ambient temperature (operation)  -40 °C 80 °C (cable, fixed installation)	Halogen-free	in accordance with DIN VDE 0472 part 815
Dither resistance hydrolysis and microbe resistant  Dither resistance partly UV-resistant in accordance with DIN EN ISO 4892-2-A  Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation)	Resistance to oil	in accordance with DIN EN 60811-2-1
Dther resistance partly UV-resistant in accordance with DIN EN ISO 4892-2-A  Ambient temperature (operation) -40 °C 80 °C (cable, fixed installation)	Other resistance	Highly resistant to acids, alkaline solutions and solvents
Ambient temperature (operation)  -40 °C 80 °C (cable, fixed installation)	Other resistance	hydrolysis and microbe resistant
	Other resistance	partly UV-resistant in accordance with DIN EN ISO 4892-2-A
Ambient temperature (operation) -25 °C 80 °C (cable, flexible installation)	Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	Ambient temperature (operation)	-25 °C 80 °C (cable, flexible installation)

#### Classifications

## **ETIM**

ETIM 2.0	EC000830
ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855



## Classifications

#### **UNSPSC**

UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501
UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501

#### eCl@ss

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306
eCI@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801

eCl@ss 6.0	27061801
eCl@ss 7.0	27061801
Approvals	
Approvals	
Approvals	
GOST / GOST	
Ex Approvals	
Approvals submitted	
Approval details	
GOST	
GOST	



Accessories

Accessories

Tools

Stripping tool - WIREFOX SAC - 1212623



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from  $\emptyset$  of 4.4 to 7 mm, any stripping length

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