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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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AS-Interface distributor with IP67 protection for two flat-ribbon conductors, with 2.0 m PUR round conductor and a molded, angled, A-coded, 4-pos. M12 SPEEDCON socket





Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	65.2 GRM
Custom tariff number	85366990
Country of origin	Vietnam

Technical data

Mechanical characteristics

Number of positions	4
Shielded	No
Insertion/withdrawal cycles	≥ 100 (M12 connector)
Connection method	AS-i penetration technique
Cable diameter	4.70 mm
Type of cable	Round cable
Cable structure	4x 0.34 mm²
Duty cycle testing	Flexible cable conduit capable
Length of cable	1 m
Color	black
Tightening torque, min.	1.65 Nm

Ambient conditions

Ambient temperature (operation)	-25 °C 75 °C (Distributor)
	-25 °C 75 °C (cable, fixed installation)



Technical data

Ambient conditions

	-5 °C 75 °C (cable, flexible installation)
Ambient temperature (storage/transport)	-25 °C 80 °C
Degree of protection	IP65/67

Material data

Housing material	PA-GF
Contact carrier material	TPE-U
Contact material	CuZn
Contact surface material	Ni/Au
Material	CuSn (M12 contact)
	TPU GF (M12 contact carrier)
	Ni/Au (M12 contact surface)
	TPU (M12 handle)
Cable gland material	Zinc die-cast, nickel-plated
Outer sheath, material	PUR
External sheath, color	deep black RAL 9005

Electrical characteristics

Rated voltage (III/3)	≤ 35 V
Rated current	≤ 4 A

Line characteristics

Cable abbreviation Li9Y11Y-HF UL AWM style $20549 / 10493 (80^{\circ}\text{C}/300 \text{ V})$ Conductor cross section $4x 0.34 \text{ mm}^2$ AWG signal line 22 Conductor structure signal line $42x 0.10 \text{ mm}$ Core diameter including insulation $1.27 \text{ mm} \pm 0.02 \text{ mm}$ Thickness, insulation $\geq 0.21 \text{ mm}$ External cable diameter $4.7 \text{ mm} \pm 0.15 \text{ mm}$ Wire colors brown, white, blue, black External sheath, color Black-gray RAL 7021 Transmission medium Copper Insulation resistance $\geq 1 \text{ G}\Omega^*\text{km}$ Conductor resistance $\leq 58000000 \Omega/\text{km}$ Nominal voltage, cable $\leq 300 \text{ V}$ Test voltage, cable $\geq 3000 \text{ V}$		
UL AWM style $20549 / 10493 (80^{\circ}\text{C}/300 \text{ V})$ Conductor cross section $4x 0.34 \text{ mm}^2$ AWG signal line 22 Conductor structure signal line $42x 0.10 \text{ mm}$ Core diameter including insulation $1.27 \text{ mm} \pm 0.02 \text{ mm}$ Thickness, insulation $\geq 0.21 \text{ mm}$ External cable diameter $4.7 \text{ mm} \pm 0.15 \text{ mm}$ Wire colors brown, white, blue, black External sheath, color Black-gray RAL 7021 Transmission medium Copper Insulation resistance $\geq 1 \text{ G}\Omega^*\text{km}$ Conductor resistance $\leq 58000000 \Omega/\text{km}$ Nominal voltage, cable $\leq 300 \text{ V}$	Cable type	PUR halogen-free black
Conductor cross section $4x 0.34 \text{ mm}^2$ AWG signal line 22 Conductor structure signal line $42x 0.10 \text{ mm}$ Core diameter including insulation $1.27 \text{ mm} \pm 0.02 \text{ mm}$ Thickness, insulation $\geq 0.21 \text{ mm}$ External cable diameter $4.7 \text{ mm} \pm 0.15 \text{ mm}$ Wire colors brown, white, blue, black $1.27 \text{ mm} \pm 0.15 \text{ mm}$ External sheath, color Black-gray RAL 7021 Transmission medium Copper $1.27 \text{ mm} \pm 0.15 \text{ mm}$ Conductor resistance $1.27 \text{ mm} \pm 0.15 \text{ mm}$ Conductor resistance $1.27 \text{ mm} \pm 0.15 \text{ mm}$ Conductor resistance $1.27 \text{ mm} \pm 0.15 \text{ mm}$ Conductor resistance $1.27 \text{ mm} \pm 0.15 \text{ mm}$ External sheath, color $1.27 \text{ mm} \pm 0.15 \text{ mm}$ Copper $1.27 \text{ mm} \pm $	Cable abbreviation	Li9Y11Y-HF
AWG signal line 22 Conductor structure signal line 42x 0.10 mm Core diameter including insulation 1.27 mm ±0.02 mm Thickness, insulation ≥ 0.21 mm External cable diameter 4.7 mm ±0.15 mm Wire colors brown, white, blue, black External sheath, color Black-gray RAL 7021 Transmission medium Copper Insulation resistance ≥ 1 GΩ*km Conductor resistance ≤ 58000000 Ω/km Nominal voltage, cable ≤ 300 V Test voltage, cable ≥ 3000 V	UL AWM style	20549 / 10493 (80°C/300 V)
Conductor structure signal line 42x 0.10 mm Core diameter including insulation 1.27 mm \pm 0.02 mm Thickness, insulation \geq 0.21 mm External cable diameter 4.7 mm \pm 0.15 mm Wire colors brown, white, blue, black External sheath, color Black-gray RAL 7021 Transmission medium Copper Insulation resistance \geq 1 G Ω *km Conductor resistance \leq 58000000 Ω /km Nominal voltage, cable \leq 300 V Test voltage, cable \geq 3000 V	Conductor cross section	4x 0.34 mm²
Core diameter including insulation 1.27 mm ±0.02 mm Thickness, insulation ≥ 0.21 mm External cable diameter 4.7 mm ±0.15 mm Wire colors brown, white, blue, black External sheath, color Black-gray RAL 7021 Transmission medium Copper Insulation resistance ≥ 1 GΩ*km Conductor resistance ≤ 58000000 Ω/km Nominal voltage, cable ≤ 300 V Test voltage, cable ≥ 3000 V	AWG signal line	22
Thickness, insulation $\geq 0.21 \text{ mm}$ External cable diameter $4.7 \text{ mm} \pm 0.15 \text{ mm}$ Wire colors brown, white, blue, black External sheath, color Black-gray RAL 7021 Transmission medium Copper Insulation resistance $\geq 1 \text{ G}\Omega^*\text{km}$ Conductor resistance $\leq 58000000 \Omega/\text{km}$ Nominal voltage, cable $\leq 300 \text{ V}$ Test voltage, cable $\geq 3000 \text{ V}$	Conductor structure signal line	42x 0.10 mm
External cable diameter 4.7 mm ± 0.15 mm Wire colors brown, white, blue, black External sheath, color Black-gray RAL 7021 Transmission medium Copper Insulation resistance ≥ 1 G Ω^* km Conductor resistance $\leq 58000000 \Omega/$ km Nominal voltage, cable $\leq 300 \text{ V}$ Test voltage, cable $\geq 3000 \text{ V}$	Core diameter including insulation	1.27 mm ±0.02 mm
Wire colors brown, white, blue, black External sheath, color Black-gray RAL 7021 Transmission medium Copper Insulation resistance $\geq 1 \text{ G}\Omega^*\text{km}$ Conductor resistance $\leq 58000000 \Omega/\text{km}$ Nominal voltage, cable $\leq 300 \text{ V}$ Test voltage, cable $\geq 3000 \text{ V}$	Thickness, insulation	≥ 0.21 mm
External sheath, color Black-gray RAL 7021 Transmission medium Copper Insulation resistance $\geq 1 \text{ G}\Omega^*\text{km}$ Conductor resistance $\leq 58000000 \Omega/\text{km}$ Nominal voltage, cable $\leq 300 \text{ V}$ Test voltage, cable $\geq 3000 \text{ V}$	External cable diameter	4.7 mm ±0.15 mm
Transmission medium Copper Insulation resistance ≥ 1 GΩ*km Conductor resistance ≤ 58000000 Ω/km Nominal voltage, cable ≤ 300 V Test voltage, cable ≥ 3000 V	Wire colors	brown, white, blue, black
Insulation resistance $ \geq 1 G\Omega^*\text{km} $ Conductor resistance $ \leq 58000000 \Omega/\text{km} $ Nominal voltage, cable $ \leq 300 V $ Test voltage, cable $ \geq 3000 V $	External sheath, color	Black-gray RAL 7021
Conductor resistance $\leq 58000000 \Omega/km$ Nominal voltage, cable $\leq 300 V$ Test voltage, cable $\geq 3000 V$	Transmission medium	Copper
Nominal voltage, cable $\leq 300 \text{ V}$ Test voltage, cable $\geq 3000 \text{ V}$	Insulation resistance	≥ 1 GΩ*km
Test voltage, cable ≥ 3000 V	Conductor resistance	≤ 58000000 Ω/km
	Nominal voltage, cable	≤ 300 V
Overall twist 4 wires, twisted	Test voltage, cable	≥ 3000 V
	Overall twist	4 wires, twisted



Technical data

Line characteristics

Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Cable weight	30 kg/km
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Max. bending cycles	4000000
Minimum bending radius, drag chain applications	10 x D
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s ²
Special properties	Flexible cable conduit capable
	Silicone-free
	Free of substances which would hinder coating with paint or varnish
	Flexible
Flame resistance	in accordance with DIN UL-Style 20549
	in accordance with FT1 as per UL 758
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
	hydrolysis and microbe resistant
	partly UV-resistant in accordance with DIN EN ISO 4892-2-A
	Low adhesion
	abrasion-resistant
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-25 °C 80 °C (cable, flexible installation)

Classifications

eCl@ss

eCl@ss 4.0	27140815
eCl@ss 4.1	27140815
eCl@ss 5.0	27143423
eCl@ss 5.1	27143423
eCl@ss 6.0	27143423
eCl@ss 7.0	27449001
eCl@ss 8.0	27449001



Classifications

ETIM

ETIM 2.0	EC000200
ETIM 3.0	EC001856
ETIM 4.0	EC000313
ETIM 5.0	EC000313

UNSPSC

UNSPSC 6.01	31261501
UNSPSC 7.0901	31261501
UNSPSC 11	31261501
UNSPSC 12.01	31261501
UNSPSC 13.2	31261501

Drawings

Schematic diagram



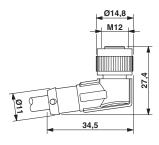
Pin assignment M12, PIN 1: AS-i +, PIN 2: AUX -, PIN 3: AS-i -, PIN 4: AUX +, PIN 5: Not used

Cable cross section



PUR halogen-free black [PUR]

Dimensioned drawing



M12 x 1 socket, angled

Dimensioned drawing

