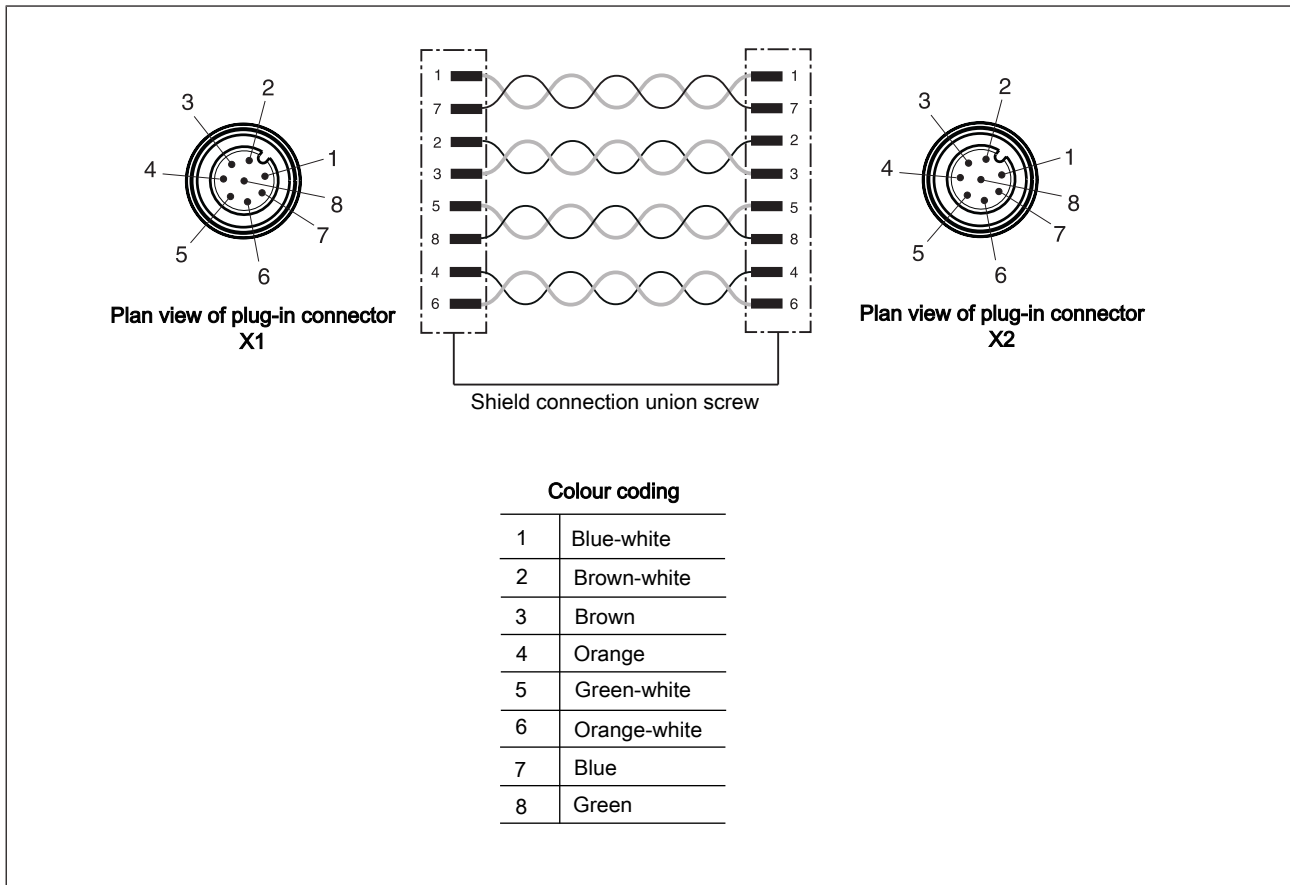


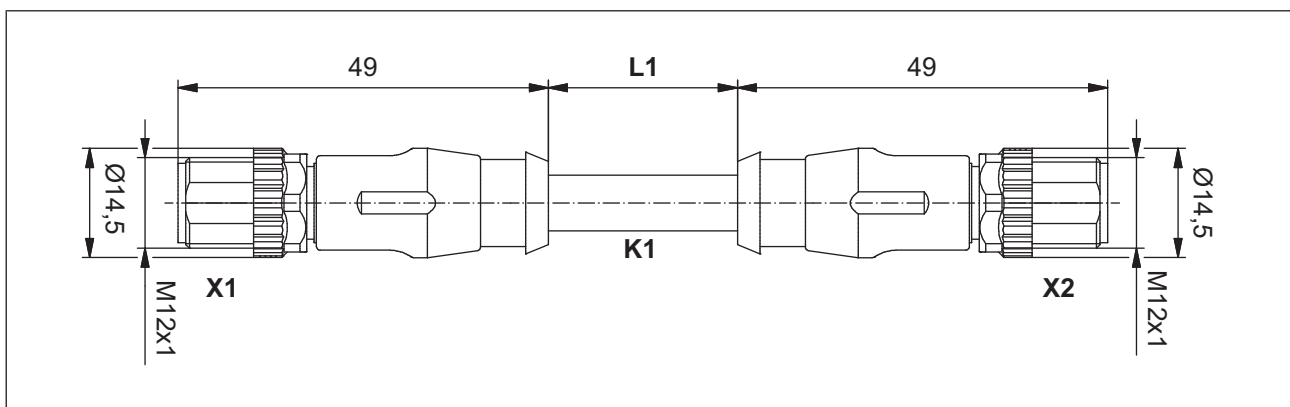
Accessories

PSEN sc cable CAT5e M12-M12 8p

Connector pin assignment



Dimensions in mm



Accessories

PSEN sc cable CAT5e M12-M12 8p

Technical details Order no. 6D000022 - 6D000024

General	6D000022	6D000023	6D000024
Certifications	CE, UKCA	CE, UKCA	CE, UKCA
Electrical data	6D000022	6D000023	6D000024
Rated voltage			
Voltage UB	30 V	30 V	30 V
Rated current	2 A	2 A	2 A
Test voltage (conductor/ conductor)	1.500 V	1.500 V	1.500 V
Test voltage (conductor/ shield)	1.000 V	1.000 V	1.000 V
Insulation resistance	100 MOhm	100 MOhm	100 MOhm
Characteristic impedance K1	100 Ohm ± 15 Ohm	100 Ohm ± 15 Ohm	100 Ohm ± 15 Ohm
Specific cable capacitance K1	49 pF/m	49 pF/m	49 pF/m
Environmental data	6D000022	6D000023	6D000024
Ambient temperature			
Temperature range	-30 - 80 °C	-30 - 80 °C	-30 - 80 °C
Airgap creepage			
Pollution degree	2, 3	2, 3	2, 3
Protection type			
X1 when inserted	IP67 when screwed in place	IP67 when screwed in place	IP67 when screwed in place
X2 when inserted	IP67 when screwed in place	IP67 when screwed in place	IP67 when screwed in place
Mechanical data	6D000022	6D000023	6D000024
Plug connector X1	M12, 8-pin male connector	M12, 8-pin male connector	M12, 8-pin male connector
in accordance with the standard	EN 61076-2-101	EN 61076-2-101	EN 61076-2-101
Form, plug-in connector X1	Straight	Straight	Straight
Coding of plug-in connector X1	A-coded	A-coded	A-coded
Plug connector X2	M12, 8-pin male connector	M12, 8-pin male connector	M12, 8-pin male connector
in accordance with the standard	EN 61076-2-101	EN 61076-2-101	EN 61076-2-101
Form, plug-in connector X2	Straight	Straight	Straight
Coding of plug-in connector X2	A-coded	A-coded	A-coded

Accessories

PSEN sc cable CAT5e M12-M12 8p

Mechanical data	6D000022	6D000023	6D000024
Material of ring nut X1	CuZn nickel-plated	CuZn nickel-plated	CuZn nickel-plated
Material of ring nut X2	CuZn nickel-plated	CuZn nickel-plated	CuZn nickel-plated
Housing material X1	TPU	TPU	TPU
Housing material X2	TPU	TPU	TPU
Material of contact surface X1	CuZn, Ni b/Au 0.2 gal.	CuZn, Ni b/Au 0.2 gal.	CuZn, Ni b/Au 0.2 gal.
Material of contact surface X2	CuZn, Ni b/Au 0.2 gal.	CuZn, Ni b/Au 0.2 gal.	CuZn, Ni b/Au 0.2 gal.
Material of gasket	FPM	FPM	FPM
Material of pin	CuZn gold-plated	CuZn gold-plated	CuZn gold-plated
Conductor material K1	Cu	Cu	Cu
Insulating cover for conductor K1	PP (9Y)	PP (9Y)	PP (9Y)
Mating cycles X1	100	100	100
Mating cycles X2	100	100	100
Cable length L1	1 m	3 m	5 m
Material of shield surface cable K1	Sn	Sn	Sn
Category cable K1	Cat5e	Cat5e	Cat5e
Colour of external cable insulation K1	Green matt RAL 6018	Green matt RAL 6018	Green matt RAL 6018
Colour of housing	Black	Black	Black
Cable insulation material K1	PUR	PUR	PUR
Drag chain suitable K1	Yes	Yes	Yes
Min. bending radius (fixed permanently) K1	5 x Ø	5 x Ø	5 x Ø
Min. bending radius (moving) K1	7,5 x Ø	7,5 x Ø	7,5 x Ø
Bending cycles cable K1	5.000.000	5.000.000	5.000.000
Max. traverse speed K1	5 m/s	5 m/s	5 m/s
Max. acceleration K1	5 m/s ²	5 m/s ²	5 m/s ²
Cable diameter K1	7,4 mm	7,4 mm	7,4 mm
Max. cable diameter K1	7,6 mm	7,6 mm	7,6 mm
Conductor cross section K1	0,22 mm ²	0,22 mm ²	0,22 mm ²
Conductor cross section AWG K1	24	24	24
Wire colour K1	blue-white/blue, brown-white/brown, green-white/green, orange-white/orange	blue-white/blue, brown-white/brown, green-white/green, orange-white/orange	blue-white/blue, brown-white/brown, green-white/green, orange-white/orange
Stranding K1	4 x twisted pair	4 x twisted pair	4 x twisted pair

Accessories

PSEN sc cable CAT5e M12-M12 8p

Mechanical data	6D000022	6D000023	6D000024
Shielding K1	Yes	Yes	Yes
Shield type K1	Tin-plated copper braid	Tin-plated copper braid	Tin-plated copper braid
No. of wires K1	8	8	8
Certification cable K1	UL AWM-Style 20236	UL AWM-Style 20236	UL AWM-Style 20236
Certification plug-in connector X1	UL94 V-0	UL94 V-0	UL94 V-0
Certification plug-in connector X2	UL94 V-0	UL94 V-0	UL94 V-0
Halogen-free	Yes	Yes	Yes
Halogen-free in accordance with the standard	CEI 20-37, EN 50267, IEC 60754	CEI 20-37, EN 50267, IEC 60754	CEI 20-37, EN 50267, IEC 60754
Silicone-free	No	No	No
Oil resistance	Resistant	Resistant	Resistant
Oil-resistance in accordance with the standard	HD 22.10 S1, UL 1581, VDE 0472 part 803 A/B	HD 22.10 S1, UL 1581, VDE 0472 part 803 A/B	HD 22.10 S1, UL 1581, VDE 0472 part 803 A/B
Non-flammability	CEI 20-35, CSA FT-1, EN 50265, IEC 60332-1, UL VW1	CEI 20-35, CSA FT-1, EN 50265, IEC 60332-1, UL VW1	CEI 20-35, CSA FT-1, EN 50265, IEC 60332-1, UL VW1
Torque of the interlock screw	0.6 Nm	0.6 Nm	0.6 Nm
Weight	97 g	213 g	363 g

Accessories

PSEN sc cable CAT5e M12-M12 8p

Technical details Order no. 6D000025 - 6D000026

General	6D000025	6D000026
Certifications	CE, UKCA	CE, UKCA
Electrical data	6D000025	6D000026
Rated voltage		
Voltage UB	30 V	30 V
Rated current	2 A	2 A
Test voltage (conductor/conductor)	1.500 V	1.500 V
Test voltage (conductor/shield)	1.000 V	1.000 V
Insulation resistance	100 MOhm	100 MOhm
Characteristic impedance K1	100 Ohm ± 15 Ohm	100 Ohm ± 15 Ohm
Specific cable capacitance K1	49 pF/m	49 pF/m
Environmental data	6D000025	6D000026
Ambient temperature		
Temperature range	-30 - 80 °C	-30 - 80 °C
Airgap creepage		
Pollution degree	2, 3	2, 3
Protection type		
X1 when inserted	IP67 when screwed in place	IP67 when screwed in place
X2 when inserted	IP67 when screwed in place	IP67 when screwed in place
Mechanical data	6D000025	6D000026
Plug connector X1	M12, 8-pin male connector	M12, 8-pin male connector
in accordance with the standard	EN 61076-2-101	EN 61076-2-101
Form, plug-in connector X1	Straight	Straight
Coding of plug-in connector X1	A-coded	A-coded
Plug connector X2	M12, 8-pin male connector	M12, 8-pin male connector
in accordance with the standard	EN 61076-2-101	EN 61076-2-101
Form, plug-in connector X2	Straight	Straight
Coding of plug-in connector X2	A-coded	A-coded
Material of ring nut X1	CuZn nickel-plated	CuZn nickel-plated
Material of ring nut X2	CuZn nickel-plated	CuZn nickel-plated
Housing material X1	TPU	TPU
Housing material X2	TPU	TPU
Material of contact surface X1	CuZn, Ni b/Au 0.2 gal.	CuZn, Ni b/Au 0.2 gal.
Material of contact surface X2	CuZn, Ni b/Au 0.2 gal.	CuZn, Ni b/Au 0.2 gal.
Material of gasket	FPM	FPM
Material of pin	CuZn gold-plated	CuZn gold-plated
Conductor material K1	Cu	Cu
Insulating cover for conductor K1	PP (9Y)	PP (9Y)
Mating cycles X1	100	100

Accessories

PSEN sc cable CAT5e M12-M12 8p

Mechanical data	6D000025	6D000026
Mating cycles X2	100	100
Cable length L1	10 m	20 m
Material of shield surface cable K1	Sn	Sn
Category cable K1	Cat5e	Cat5e
Colour of external cable insulation K1	Green matt RAL 6018	Green matt RAL 6018
Colour of housing	Black	Black
Cable insulation material K1	PUR	PUR
Drag chain suitable K1	Yes	Yes
Min. bending radius (fixed permanently) K1	5 x Ø	5 x Ø
Min. bending radius (moving) K1	7,5 x Ø	7,5 x Ø
Bending cycles cable K1	5.000.000	5.000.000
Max. traverse speed K1	5 m/s	5 m/s
Max. acceleration K1	5 m/s ²	5 m/s ²
Cable diameter K1	7,4 mm	7,4 mm
Max. cable diameter K1	7,6 mm	7,6 mm
Conductor cross section K1	0,22 mm ²	0,22 mm ²
Conductor cross section AWG K1	24	24
Wire colour K1	blue-white/blue, brown-white/brown, green-white/green, orange-white/orange	blue-white/blue, brown-white/brown, green-white/green, orange-white/orange
Stranding K1	4 x twisted pair	4 x twisted pair
Shielding K1	Yes	Yes
Shield type K1	Tin-plated copper braid	Tin-plated copper braid
No. of wires K1	8	8
Certification cable K1	UL AWM-Style 20236	UL AWM-Style 20236
Certification plug-in connector X1	UL94 V-0	UL94 V-0
Certification plug-in connector X2	UL94 V-0	UL94 V-0
Halogen-free	Yes	Yes
Halogen-free in accordance with the standard	CEI 20-37, EN 50267, IEC 60754	CEI 20-37, EN 50267, IEC 60754
Silicone-free	No	No
Oil resistance	Resistant	Resistant
Oil-resistance in accordance with the standard	HD 22.10 S1, UL 1581, VDE 0472 part 803 A/B	HD 22.10 S1, UL 1581, VDE 0472 part 803 A/B
Non-flammability	CEI 20-35, CSA FT-1, EN 50265, IEC 60332-1, UL VW1	CEI 20-35, CSA FT-1, EN 50265, IEC 60332-1, UL VW1
Torque of the interlock screw	0.6 Nm	0.6 Nm
Weight	699 g	1.360 g

Accessories

PSEN sc cable CAT5e M12-M12 8p

Order reference

Product type	Features	Connector X1	Connector X2	Connector X3	Order no.
PSEN sc cable CAT5e M12-8sm/ M12-8sm, 1m	1 m	M12, 8-pin male con- nector, straight	M12, 8-pin male con- nector, straight		6D000022
PSEN sc cable CAT5e M12-8sm/ M12-8sm, 3m	3 m	M12, 8-pin male con- nector, straight	M12, 8-pin male con- nector, straight		6D000023
PSEN sc cable CAT5e M12-8sm/ M12-8sm, 5m	5 m	M12, 8-pin male con- nector, straight	M12, 8-pin male con- nector, straight		6D000024
PSEN sc cable CAT5e M12-8sm/ M12-8sm, 10m	10 m	M12, 8-pin male con- nector, straight	M12, 8-pin male con- nector, straight		6D000025
PSEN sc cable CAT5e M12-8sm/ M12-8sm, 20m	20 m	M12, 8-pin male con- nector, straight	M12, 8-pin male con- nector, straight		6D000026