

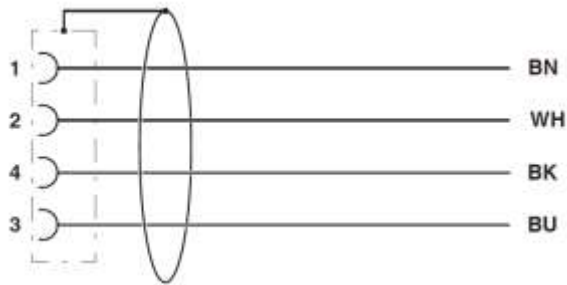
Data sheet

Connecting box

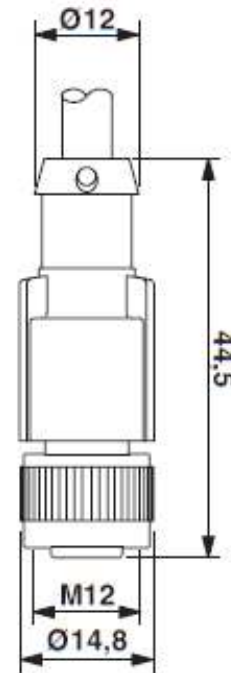
Type: M12 connection box, 4-pin, straight, with 3m PUR cable shielded

Part no.: G116960

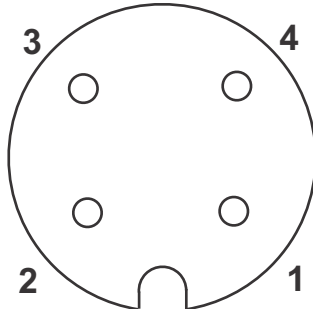
Circuit diagram



Dimensioned drawing



Pole image



Technical data

Cable length:	3m
Sheath length of the free cable end:	50mm
Ambient temperature:	-25°C...90°C (plug / socket)
Protection class:	IP65/IP67
Rated current at 40°C:	4A
Rated voltage:	48V AC, 60V AC
Number of poles:	4
Insulation resistance:	≥100 MΩ
Coding:	A standard
Standards/regulations:	M12 plug connector IEC 61076-2-101
Status display:	No
Protective circuit/component:	unconnected
Overvoltage category:	II
Pollution degree:	3
Mating cycles:	≥100
Tightening torque:	0,4Nm (M12 plug connector)
Flammability class according to UL 94:	HB
Material contact:	CuSn
Material contact surface:	Ni/Au
Material contact carrier:	TPU GF
Material handle body:	TPU, flame retardant, self-extinguishing
Material knurl:	Zinc die-cast, nickel-plated
Material seal:	NBR

Data sheet

Connecting box

Type: M12 connection box, 4-pin, straight, with 3m PUR cable shielded

Part no.: G116960

Cable type:	PUR halogen-free black
Cable type (abbreviation):	PUR
Cable abbreviation:	LiY-V1-C-V1-11Y
UL AWM Style:	20549/10493 (80°C/300V)
Conductor cross-section:	4x 0,34mm ² (signal line)
AWG Signal line:	22
Conductor construction Signal cable:	42x0,10mm
Conductor diameter incl. insulation:	1,27mm±0,02mm (signal line)
Wall thickness Insulation:	≥0,21mm
Core colors:	brown, white, blue, black
Total stranding:	4 cores stranded lengthwise
Shielding:	Braiding of tinned copper wires
Optical shield covering:	80%
Wall thickness Outer sheath:	ca.0,5mm
Cable outer diameter D:	4,95mm ±0,2mm
Minimum bending radius, fixed installation:	5xD
Minimum bending radius, flexible installation:	10xD
Number of bending cycles:	10000000
Minimum bending radius, drag chain use:	10xD
Travel distance:	10m
Travel speed:	3 m/s
Acceleration:	10m/s ²
Cable weight:	36kg/km
Outer sheath, color:	black-grey RAL 7021
Outer sheath, material:	PUR
Core insulation material:	PP
Conductor material:	bare copper wire
Insulation resistance:	≥100GΩ*km (at 20°C)
Conductor resistance:	max. 58Ω/km (at 20°C)
Conductor capacitance:	≤ 80pF/m (conductor-conductor), ≤135 pF/m (conductor-shield)
Characteristic impedance:	≥62Ω (f=10MHz)
Line inductance:	ca. 0,75 mH/km (f= 1kHz)
Nominal line voltage:	≤300V
Test voltage Line:	≥3000V
Special properties:	suitable for drag chains, silicone-free, free from paint-wettinginterfering substances, low-adhesion surfaces
Other special features:	Good resistance to acids, alkalis and solvents, resistant to hydrolysis and microbes, resistant to seawater seawater, limited UV resistance according to DIN EN ISO 4892-2-A, abrasion resistant
Flame retardancy:	acc. to UL 758/1581 FT2, DIN EN 60332-2-2 (20s)
Halogen-free:	acc. to DIN VDE 0472 Teil 815, acc. to DIN EN 50267 2-1
Oil resistance:	acc. to DIN EN 60811-2-1
Ambient temperature (operating):	-40°C...80° (cable, fixed installation), -25°C ...80°C (cable, movable installation)
China RoHS:	Period for intended use: unlimited = EFUP -e, No hazardous substances above the limit value