

**MVP12, 8XM12, 5POLE, PLUGGABLE CABLE**

3.0m PUR/PVC 16x0,34+5x0,75

Art.No.: 27081

Weight: 0.900 kg

Country of origin: DE

Model designation: MVM8-UHA3.0-MP

Further cable lengths on request.

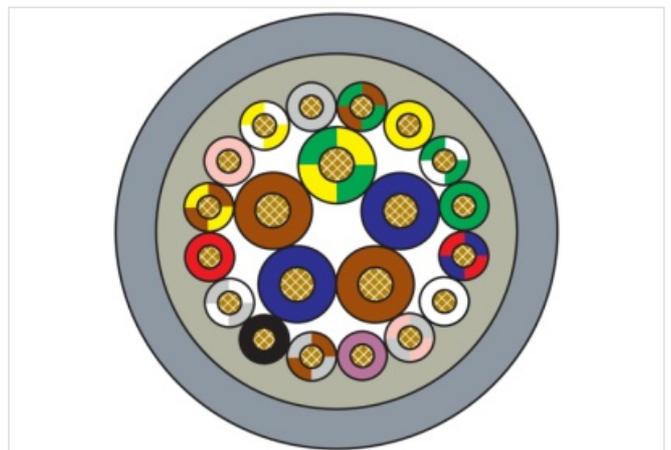
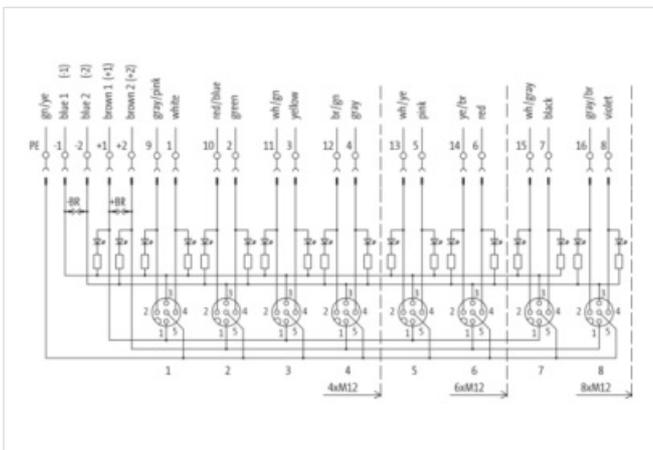
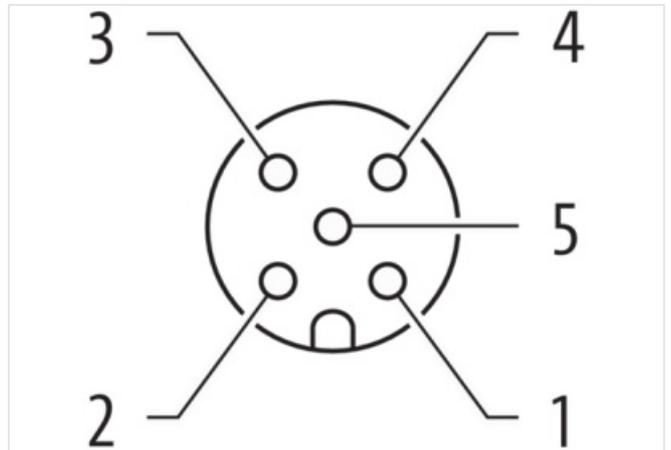
Plastic housings with good resistance against chemicals and oils.

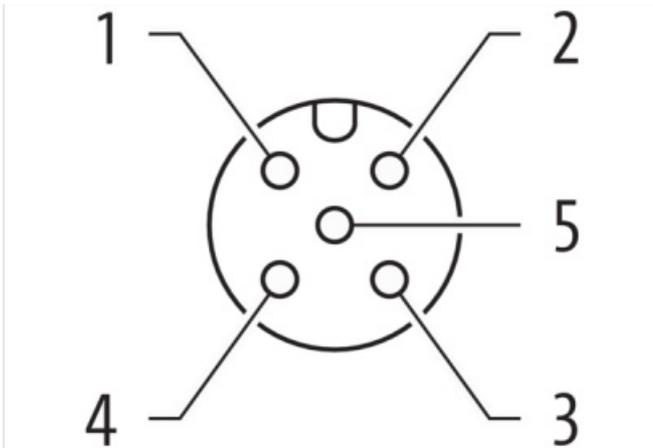
The resistance to aggressive media should be individually tested for your application. Further details on request.

with LED for digital PNP-signals 24 V DC

[Link to Product](#)

**Illustration**





Product may differ from Image



#### Header

Material short text MVM8-UHA3.0-MP

#### Commercial data

URL Webshop <https://shop.murrelektronik.com/27081>

GTIN 4048879064231

ECLASS-6.0 27279219

ECLASS-6.1 27279219

ECLASS-7.0 27279219

ECLASS-7.1 27279219

ECLASS-8.0 27279219

ECLASS-8.1 27279219

ECLASS-9.0 27440108

ECLASS-9.1 27440108

ECLASS-10.0.1 27440108

ECLASS-10.1 27440108

ECLASS-11.0 27440108

ECLASS-11.1 27440108

ECLASS-12.0 27440108

ECLASS-13.0 27440108

ECLASS-14.0 27440108

ETIM-5.0 EC002585

ETIM-6.0 EC002585

ETIM-7.0 EC002585

ETIM-8.0 EC002585

customs tariff number 85366990

EAN 4048879064231

Packaging unit 1

#### Electrical data | Supply

Operating voltage DC 24 V

Operating voltage DC min. 18 V

Operating voltage DC max. 30 V

Current operating per contact max. 4 A

Total current at 1 time current feed-in max.	8 A
Total current at 2 times current feed-in max.	16 A
<b>Industrial Communication</b>	
Number of signals per port	2
<b>Installation   Connection</b>	
Tightening torque	0,6 Nm
Mounting set	M12 x 1
<b>Device protection   Electrical</b>	
Degree of protection (EN IEC 60529)	IP67, IP65
Additional condition protection degree	inserted, screwed
<b>Device protection   Media</b>	
Flame resistance	flame retardant
<b>Mechanical data   Material data</b>	
Material housing	PBT
<b>Mechanical data   Mounting data</b>	
Height	150 mm
Width	50,2 mm
Depth	17 mm
Mounting method	Schraubgewinde, screwed, Shaking protection
<b>Environmental characteristics   Climatic</b>	
Operating temperature min.	-20 °C
Operating temperature max.	80 °C
Additional condition temperature range	depending on cable quality
<b>Installation   Cable</b>	
Cable identification	404
Cable Type	2
Function cable	Hybrid, Signal, Power
Stranding	1 × 5 wires around core filler twisted
Amount stranding (type 2)	1
Stranding (type 2)	1 × 16 wires stranded around stranding combination
Filler	Yes
Wire arrangement	(brown 2, green-yellow, blue 1, brown 1, blue 2), brown-yellow, pink, yellow-white, gray, brown-green, yellow, green-white, green, red-blue, white, gray-pink, violet, brown-gray, black, gray-white, red
Cable weight	234,43 g/m
Material wire insulation	PVC
Amount wires	16
Outer diameter insulation	1,4 mm
Outer diameter tolerance core insulation	± 0,1 mm
Shore hardness wire insulation	55 ± 5 Shore D
Material properties wire insulation	good machinability
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
Amount strands (wire)	19
Diameter of single wires	0,15 mm
Conductor crosssection (wire)	0,34 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	Strand class 5
Material wire insulation (type 2)	PVC
Outer diameter wire insulation (type 2)	1,8 mm
Tolerance outer diameter wire insulation (type 2)	± 0,1 mm
Shore hardness wire insulation (type 2)	43 ± 5 Shore D
Material properties wire insulation (type 2)	good machinability

Ingredient freeness wire insulation (type 2)	lead-free, cadmium-free, CFC-free, silicone-free
Amount wires (type 2)	5
Amount strands wire (type 2)	42
Diameter of single wires (type 2)	0,15 mm
Conductor crosssection wire (type 2)	0,75 mm <sup>2</sup>
Material conductor wire (type 2)	Stranded copper wire, bare
Wire conductor type (type 2)	strand class 6
Electrical function wire (type 2)	Power
Printing colour wire insulation (type 3)	white (isolation blue), white (isolation brown)
Outer-diameter (jacket)	12,5 mm
Tolerance outer diameter (sheath)	± 5 %
Material jacket	PUR
Shore hardness jacket	87 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Material property (jacket)	abrasion-resistant, low adhesion, good machinability, matte
Material inner jacket	PVC
Color (inner jacket)	gray
Conductor resistance (wire)	57 Ω/km @ 20 °C
Conductor resistance (wire type 2)	26 Ω/km @ 20 °C
Max. rated voltage (conductor - ground)	300 V
Max. rated voltage (conductor - conductor)	300 V
Withstand voltage (wire - wire)	2 kV @ 60 s
Withstand voltage (wire - jacket)	2 kV @ 60 s
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity max. (wire)	4 A
Current load capacity max. Wire (type 2)	9 A
Operating temperature min. (static)	-30 °C
Operating temperature max. (static)	80 °C
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	70 °C
Operating temperature min. (drag chain)	-5 °C
Operating temperature max. (drag chain)	60 °C
Flame resistance	UL 1581 § 1090, CSA FT2, IEC 60332-2-2
Oil resistance	IEC 60811-404
Chemical resistance	good
Other resistances	good resistance to gasoline, resistant to hydrolysis, resistant to microbes
Bending radius (fixed)	5 × Outer diameter
Bending radius (dynamic)	10 × Outer diameter
No. of bending cycles (C-track)	2 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track)	2 m/s @ 25 °C
Acceleration (C-track)	10 m/s <sup>2</sup> @ 25 °C

#### Connection type 2

Family construction form	free cable end
No. of poles	21
Color contact carrier	gray
Family construction form	M12
No. of poles	5
Coding	A
Gender	female
Color contact carrier	black
PIN 1	+
PIN 2	NC S 2

PIN 3	-
PIN 4	NO S 1
PIN 5	PE