

Harsh conditions

High mechanical and chemical resistance



ÖLFLEX® 491 P

Abrasion-resistant PUR control cables – approved for North America



Info

- For the North American market
- High mechanical strength
- Good oil resistance

Benefits

- Certified for the USA and Canada for export-oriented appliance and apparatus manufacturers
- Increased durability under harsh conditions thanks to robust PUR outer sheath
- Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media
- Metric flexible conductor design
- Also available as DESINA® compliant power cable with black outer sheath colour

Application range

- Appliance and apparatus construction
- Plant engineering
- Very suitable for oily wet areas within machinery and production lines that are subject to normal mechanical stress
- Outdoor use is possible within the indicated operating temperature range

Product features

- High oil-resistance
- Abrasion and notch-resistant
- Low-adhesive surface
- Flame-retardant according to IEC 60332-1-2 & CSA FT1
- Resistant to hydrolysis and microbes

Norm references / Approvals

- In accordance with UL AWM Style 20234
- CUL AWM II A/B FT1
- Multi-standard cables have conductor strands with nominal sizes in mm² or AWG/kcmil. The master size is mentioned in the table below, while the equivalent size of the other system can be found in the Appendix T16 of this catalogue. For this related secondary size the cross-section of the conductor mostly works out to be greater than the specified nominal value.

Product make-up

- Fine-wire strand made of bare copper wires
- Core insulation: special PVC
- Cores twisted in layers
- Special polyurethane outer sheath (PUR)
- Sheath colour: silver grey (RAL 7001)
- DESINA®-compliant: black (RAL 9005)

Technical data

Classification
ETIM 5.0 Class-ID: EC000104
ETIM 5.0 Class-Description: Control cable

Core identification code
Black with white numbers acc. to VDE 0293-1

Specific insulation resistance
> 20 GOhm x cm

Conductor stranding
Fine wire according to VDE 0295, class 5/IEC 60228 class 5

Minimum bending radius
Occasional flexing: 15 x outer diameter
Fixed installation: 4 x outer diameter

Nominal voltage
HAR U₀/U: 300/500 V
UL/CSA: 600 V

Test voltage
4000 V

Protective conductor
G = with GN-YE protective conductor
X = without protective conductor

Temperature range
Flexible use: -5°C to 80°C
Fixed installation: -40°C to 80°C

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® 491 P - sheath colour: black				
0013009	3 G 1.0	7.7	27.0	73
0013017	3 G 1.5	8.3	44.0	100
0013018	4 G 1.5	9.0	58.0	123
0013019	5 G 1.5	9.8	72.0	150
0013020	7 G 1.5	10.7	101.0	197
0013021	12 G 1.5	13.8	173.4	344
0013023	25 G 1.5	20.0	360.0	682
0013024	3 G 2.5	9.2	72.0	152
0013025	4 G 2.5	9.9	96.0	200
ÖLFLEX® 491 P - sheath colour: grey				
0013208	2 X 1.0	7.3	19.2	62
0013210	4 G 1.0	8.2	35.0	89
0013212	7 G 1.0	9.7	61.0	138
0013213	12 G 1.0	12.5	105.0	232
0013214	18 G 1.0	14.8	157.0	340
0013215	25 G 1.0	17.8	218.0	454
0013223	3 G 1.5	8.3	44.0	100
0013220	4 G 1.5	9.0	57.6	123
0013222	7 G 1.5	10.7	101.0	197
0013225	12 G 1.5	13.8	173.0	344
0013226	18 G 1.5	16.6	260.0	488
0013227	25 G 1.5	20.0	360.0	682

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Copper price basis: EUR 150/100kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.
Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum
Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).
DESINA® is a registered trademark of the German Machine Tool Builders' Association
Photographs are not to scale and do not represent detailed images of the respective products.

Similar products

- ÖLFLEX® CLASSIC 400 P refer to page 69

Accessories

- Marking systems refer to page 862
- SKINTOP® Standard refer to page 654

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 UNITRONIC®
 ETHERLINE®
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 EPIC®
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 ACCESSORIES
 APPENDIX