

**JZ-500 PUR** tear and coolant resistant, meter marking**Technical data**

- Special-PUR control cable adapted to DIN VDE 0285-525-1 / DIN EN 50525-1
- **Temperature range**  
flexing -15°C to +80°C  
fixed installation -40°C to +80°C
- **Nominal voltage** U<sub>0</sub>/U 300/500 V
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**  
min. 20 MOhm x km
- **Minimum bending radius**  
flexing 7,5x cable Ø  
fixed installation 4x cable Ø
- **Radiation resistance**  
up to 100x10<sup>6</sup> cJ/kg (up to 100 Mrad)

**Cable structure**

- Bare copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of special PVC compound type T12 to DIN VDE 0207-363-3/ DIN EN 50363-3
- Core identification to DIN VDE 0293 black cores with continuous white numbering
- GN-YE conductor, 3 cores and above in the outer layer
- Cores stranded in layers with optimal lay-length
- Outer sheath of special **full-polyurethane** compound type TMPU to DIN EN 50363-10-2
- Sheath colour grey (RAL 7001) also available in other colours
- with meter marking

**Properties**

- **Resistant to**  
UV-Radiation, Oxygene, Ozone and Hydrolysis, Microbes
- Low adhesion, matt surface
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

**Note**

- G = with green-yellow conductor  
x = without green-yellow conductor (OZ)
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.
- screened analogue type:  
**JZ-500-FC-PUR**, confer page 76

**Application**

JZ-500 PUR is an extremely robust control cable with high abrasion and tear resistant properties. Due to its high resistance coolant emulsions, it is especially suited for use in the machine, tool making and plant industries as well as in the steel industry for difficult and problem areas. The high flexibility of this cable type makes it quick and easy to install. Suitable for outdoor lying.

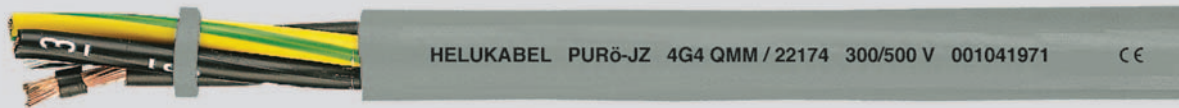
CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
23314	2 x 0,5	4,8	9,6	45,0	20
23315	3 G 0,5	5,1	14,4	55,0	20
23316	3 x 0,5	5,1	14,4	55,0	20
23317	4 G 0,5	5,5	19,0	65,0	20
23318	4 x 0,5	5,5	19,0	65,0	20
23319	5 G 0,5	6,2	24,0	75,0	20
23320	5 x 0,5	6,2	24,0	75,0	20
23321	7 G 0,5	6,7	33,6	90,0	20
23322	7 x 0,5	6,7	33,6	90,0	20
23323	10 G 0,5	8,3	48,0	120,0	20
23324	12 G 0,5	8,7	58,0	135,0	20
23325	18 G 0,5	10,7	86,0	205,0	20
23326	25 G 0,5	12,6	120,0	270,0	20
23327	34 G 0,5	14,3	163,0	380,0	20
23328	42 G 0,5	15,8	202,0	415,0	20
23329	2 x 0,75	5,3	14,4	44,0	19
23330	3 G 0,75	5,6	21,6	53,0	19
23331	3 x 0,75	5,6	21,6	53,0	19
23332	4 G 0,75	6,3	29,0	64,0	19
23333	4 x 0,75	6,3	29,0	64,0	19
23334	5 G 0,75	6,9	36,0	76,0	19
23335	5 x 0,75	6,9	36,0	76,0	19
23336	7 G 0,75	7,5	50,0	96,0	19
23337	7 x 0,75	7,5	50,0	96,0	19
23338	10 G 0,75	9,2	72,0	140,0	19
23339	12 G 0,75	9,8	86,0	170,0	19
23340	18 G 0,75	12,2	130,0	260,0	19
23341	25 G 0,75	14,3	180,0	282,0	19
23342	34 G 0,75	16,5	245,0	475,0	19
23343	42 G 0,75	18,1	302,0	600,0	19
23344	2 x 1	5,6	19,0	53,0	18
23345	3 G 1	5,6	29,0	63,0	18
23346	3 x 1	5,9	29,0	63,0	18
23347	4 G 1	6,6	38,0	75,0	18
23348	4 x 1	6,6	38,0	75,0	18
23349	5 G 1	7,3	48,0	89,0	18
23350	5 x 1	7,3	48,0	89,0	18
23351	7 G 1	8,1	67,0	115,0	18

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
23352	7 x 1	8,1	67,0	115,0	18
23353	10 G 1	9,8	96,0	166,0	18
23354	12 G 1	10,4	115,0	201,0	18
23355	18 G 1	12,9	173,0	289,0	18
23356	25 G 1	15,4	240,0	380,0	18
23357	34 G 1	17,7	326,0	645,0	18
23358	42 G 1	19,5	403,0	730,0	18
23359	50 G 1	21,3	480,0	890,0	18
23360	2 x 1,5	6,4	29,0	68,0	16
23361	3 G 1,5	6,8	43,0	87,0	16
23362	3 x 1,5	6,8	43,0	87,0	16
23363	4 G 1,5	7,4	58,0	106,0	16
23364	4 x 1,5	7,4	58,0	106,0	16
23365	5 G 1,5	8,3	72,0	131,0	16
23366	5 x 1,5	8,3	72,0	131,0	16
23367	7 G 1,5	9,2	101,0	173,0	16
23368	7 x 1,5	9,2	101,0	173,0	16
23369	12 G 1,5	11,8	173,0	293,0	16
23370	18 G 1,5	14,6	259,0	454,0	16
23371	25 G 1,5	17,4	360,0	641,0	16
23372	30 G 1,5	18,6	410,0	800,0	16
23373	2 x 2,5	7,8	48,0	110,0	14
23374	3 G 2,5	8,3	72,0	146,0	14
23375	4 G 2,5	9,2	96,0	183,0	14
23376	5 G 2,5	10,1	120,0	222,0	14
23377	7 G 2,5	11,2	168,0	293,0	14
23378	12 G 2,5	14,8	288,0	512,0	14
23379	4 G 4	10,9	154,0	291,0	12
23380	5 G 4	12,1	192,0	355,0	12
23381	7 G 4	13,2	269,0	503,0	12
23382	4 G 6	13,0	230,0	468,0	10
23383	5 G 6	14,5	288,0	570,0	10
23384	7 G 6	16,2	403,0	808,0	10
23385	4 G 10	16,5	384,0	720,0	8
23386	5 G 10	18,3	480,0	894,0	8
23387	7 G 10	20,2	672,0	1295,0	8
23388	4 G 16	20,1	614,0	1063,0	6

Dimensions and specifications may be changed without prior notice. (RA02)

# PURö-JZ tear and coolant resistant, increased oil resistant, meter marking



## Technical data

- Special-PUR control cable adapted to DIN VDE 0285-525-1 / DIN EN 50525-1
- **Temperature range**  
flexing -20°C to +80°C  
fixed installation -40°C to +80°C
- **Nominal voltage** U<sub>0</sub>/U 300/500 V
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**  
min. 20 MOhm x km
- **Minimum bending radius**  
flexing 7,5x cable Ø  
fixed installation 4x cable Ø
- **Radiation resistance**  
up to 100x10<sup>6</sup> cJ/kg (up to 100 Mrad)

## Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of **oil resistant** PVC compound type T12 adapted to DIN VDE 0207-363-3 / DIN EN 50363-3, for better sliding abilities
- Core identification to DIN VDE 0293 black cores with continuous white numbering
- GN-YE conductor, 3 cores and above in the outer layer
- Cores stranded in layers with optimal lay-length
- Outer sheath of special **full-polyurethane** compound type TMPU to DIN EN 50363-10-2
- Sheath colour grey (RAL 7001)  
also available in other colours on request
- with meter marking

## Properties

- **Resistant to**  
UV-Radiation, Oxygene, Ozone  
Hydrolysis, Microbes
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

## Note

- G = with green-yellow conductor  
x = without green-yellow conductor (OZ)
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.
- screened analogue type:  
**F-C-PURö-JZ**, confer page 78,  
**Yö-C-PURö-JZ**, confer page 80

## Application

PURö-JZ is an extremely robust control cable with high abrasion and tear resistant properties. With high-grade oil resistant PVC core insulation. Due to its high resistance to mineral oils and especially to coolant emulsions, it is especially suited for use in the machine, tool making, plant construction as well as in the steel industry for difficult and problem areas. For medium mechanical stress for flexible use with free movement without tensile stress or forced movements in dry, damp and wet rooms and in open air. The high flexibility of this cable type makes it quick and easy to install.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No.cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
22100	2 x 0,5	4,8	9,6	45,0	20
22101	3 G 0,5	5,1	14,4	55,0	20
22102	4 G 0,5	5,5	19,0	65,0	20
22103	5 G 0,5	6,2	24,0	75,0	20
22104	7 G 0,5	6,7	33,6	90,0	20
22105	8 G 0,5	7,4	38,0	105,0	20
22106	10 G 0,5	8,3	48,0	120,0	20
22107	12 G 0,5	8,7	58,0	135,0	20
22108	14 G 0,5	9,5	67,0	170,0	20
22109	18 G 0,5	10,7	86,0	205,0	20
22110	21 G 0,5	11,3	96,0	225,0	20
22111	25 G 0,5	12,6	120,0	270,0	20
22112	30 G 0,5	13,5	144,0	315,0	20
22113	34 G 0,5	14,3	163,0	380,0	20
22114	42 G 0,5	15,8	202,0	415,0	20
22115	50 G 0,5	17,5	240,0	550,0	20
22116	2 x 0,75	5,3	14,4	44,0	19
22117	3 G 0,75	5,6	21,6	53,0	19
22118	4 G 0,75	6,3	29,0	64,0	19
22119	5 G 0,75	6,9	36,0	76,0	19
22120	7 G 0,75	7,5	50,0	96,0	19
22121	8 G 0,75	8,3	58,0	111,0	19
22122	10 G 0,75	9,2	72,0	140,0	19
22123	12 G 0,75	9,8	86,0	170,0	19
22124	14 G 0,75	10,6	101,0	202,0	19
22125	18 G 0,75	12,2	130,0	260,0	19
22126	21 G 0,75	12,7	151,0	269,0	19
22127	25 G 0,75	14,3	180,0	282,0	19
22128	30 G 0,75	15,3	216,0	400,0	19
22129	34 G 0,75	16,5	245,0	475,0	19
22130	42 G 0,75	18,1	302,0	600,0	19
22131	50 G 0,75	19,8	360,0	720,0	19

Part no.	No.cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
22132	2 x 1	5,6	19,0	53,0	18
22133	3 G 1	5,9	29,0	63,0	18
22134	4 G 1	6,6	38,0	75,0	18
22135	5 G 1	7,3	48,0	89,0	18
22136	7 G 1	8,1	67,0	115,0	18
22137	8 G 1	8,8	77,0	131,0	18
22138	10 G 1	9,8	96,0	166,0	18
22139	12 G 1	10,4	115,0	201,0	18
22140	14 G 1	11,4	134,0	230,0	18
22141	18 G 1	12,9	173,0	289,0	18
22142	21 G 1	13,8	196,0	306,0	18
22143	25 G 1	15,4	240,0	380,0	18
22144	32 G 1	17,1	308,0	620,0	18
22145	34 G 1	17,7	326,0	645,0	18
22146	42 G 1	19,5	403,0	730,0	18
22147	50 G 1	21,3	480,0	890,0	18
22148	2 x 1,5	6,4	29,0	68,0	16
22149	3 G 1,5	6,8	43,0	87,0	16
22150	4 G 1,5	7,4	58,0	106,0	16
22151	5 G 1,5	8,3	72,0	131,0	16
22152	7 G 1,5	9,2	101,0	173,0	16
22153	8 G 1,5	10,0	115,0	199,0	16
22154	10 G 1,5	10,9	144,0	245,0	16
22155	12 G 1,5	11,8	173,0	293,0	16
22156	14 G 1,5	13,0	202,0	347,0	16
22157	18 G 1,5	14,6	259,0	454,0	16
22158	21 G 1,5	15,6	302,0	534,0	16
22159	25 G 1,5	17,4	360,0	641,0	16
22160	30 G 1,5	18,6	410,0	800,0	16
22161	34 G 1,5	20,0	490,0	945,0	16
22162	42 G 1,5	21,8	605,0	1100,0	16
22163	50 G 1,5	24,2	720,0	1250,0	16

Continuation ▶

**PURö-JZ** tear and coolant resistant, increased oil resistant, meter marking

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
22164	2 x 2,5	7,8	48,0	110,0	14
22165	3 G 2,5	8,3	72,0	146,0	14
22166	4 G 2,5	9,2	96,0	183,0	14
22167	5 G 2,5	10,1	120,0	222,0	14
22168	7 G 2,5	11,2	168,0	293,0	14
22169	12 G 2,5	14,8	288,0	512,0	14
22170	18 G 2,5	18,2	432,0	740,0	14
22171	25 G 2,5	21,6	600,0	940,0	14
22172	2 x 4	9,2	77,0	147,0	12
22173	3 G 4	9,8	115,0	228,0	12
22174	4 G 4	10,9	154,0	291,0	12
22175	5 G 4	12,1	192,0	355,0	12
22176	7 G 4	13,2	269,0	503,0	12
22177	3 G 6	11,9	173,0	362,0	10
22178	4 G 6	13,0	230,0	468,0	10
22179	5 G 6	14,5	288,0	570,0	10
22180	7 G 6	16,2	403,0	808,0	10

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
22181	3 G 10	14,9	288,0	555,0	8
22182	4 G 10	16,5	384,0	720,0	8
22183	5 G 10	18,3	480,0	894,0	8
22184	7 G 10	20,2	672,0	1295,0	8
22185	4 G 16	20,1	614,0	1063,0	6
22186	5 G 16	22,6	768,0	1400,0	6
22187	7 G 16	24,8	1075,0	1800,0	6
22188	4 G 25	25,0	960,0	1590,0	4
22189	4 G 35	28,7	1344,0	2200,0	2
22190	4 G 50	34,1	1920,0	2400,0	1
22191	4 G 70	40,2	2688,0	4400,0	2/0
22192	4 G 95	46,0	3648,0	6000,0	3/0

Dimensions and specifications may be changed without prior notice. (RA02)



Suitable accessories can be found in Chapter X.

- Cable Gland - HELUTOP® HT-PA
- Cable Gland - HELUTOP® HT-MS
- Cable Gland - HELUTOP® HT-E