



Technical data

- Special PUR cables adapted to DIN VDE 0281
- **Temperature range**
flexing -5 °C to +80 °C
fixed installation -40 °C to +80 °C
- **Nominal voltage** U₀/U 300/500 V
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**
min. 20 MΩm x km
- **Minimum bending radius**
flexing 7,5x cable ø
fixed installation 4x cable ø
- **Radiation resistance**
up to 100x10⁶ cJ/kg (up to 100 Mrad)

Cable structure

- Bare copper, fine wire conductors, bunch stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Special PVC core insulation TI2, according to DIN VDE 0281 part 1
- Black cores with continuous white numbering according to DIN VDE 0293
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layers with optimal lay-length
- Special **full-polyurethane** outer jacket TPU, to DIN EN 50363-10-2
- Sheath colour grey (RAL 7001)
- Jacket also available in other colours
- with meter marking, change-over in 2011

Properties

- **Resistant to**
UV-Radiation, Oxygene, Ozone and hydrolysis Microbes
- Low adhesion, matt surface
- self-extinguishing and flame retardant according to VDE 0482-332-1-2, DIN EN 60332-1-2/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- 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 earth core;
x = without green-yellow earth core (OZ).
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- **screened analogue type:**
JZ-500-FC-PUR, see page A 52

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/EG.

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
23314	2 x 0,5	4,9	9,6	45,0	20
23315	3 G 0,5	5,2	14,4	55,0	20
23316	3 x 0,5	5,2	14,4	55,0	20
23317	4 G 0,5	5,6	19,0	65,0	20
23318	4 x 0,5	5,6	19,0	65,0	20
23319	5 G 0,5	6,3	24,0	75,0	20
23320	5 x 0,5	6,3	24,0	75,0	20
23321	7 G 0,5	6,9	33,6	90,0	20
23322	7 x 0,5	6,9	33,6	90,0	20
23323	10 G 0,5	8,3	48,0	120,0	20
23324	12 G 0,5	8,8	58,0	135,0	20
23325	18 G 0,5	11,0	86,0	205,0	20
23326	25 G 0,5	12,9	120,0	270,0	20
23327	34 G 0,5	14,9	163,0	380,0	20
23328	42 G 0,5	16,1	202,0	415,0	20
23329	2 x 0,75	5,3	14,4	44,0	18
23330	3 G 0,75	5,6	21,6	53,0	18
23331	3 x 0,75	5,6	21,6	53,0	18
23332	4 G 0,75	6,3	29,0	64,0	18
23333	4 x 0,75	6,3	29,0	64,0	18
23334	5 G 0,75	6,9	36,0	76,0	18
23335	5 x 0,75	6,9	36,0	76,0	18
23336	7 G 0,75	7,5	50,0	96,0	18
23337	7 x 0,75	7,5	50,0	96,0	18
23338	10 G 0,75	9,2	72,0	140,0	18
23339	12 G 0,75	9,8	86,0	170,0	18
23340	18 G 0,75	12,2	130,0	260,0	18
23341	25 G 0,75	14,3	180,0	282,0	18
23342	34 G 0,75	16,7	245,0	475,0	18
23343	42 G 0,75	18,0	302,0	600,0	18
23344	2 x 1	5,6	19,0	53,0	17
23345	3 G 1	5,9	29,0	63,0	17
23346	3 x 1	5,9	29,0	63,0	17
23347	4 G 1	6,6	38,0	75,0	17
23348	4 x 1	6,6	38,0	75,0	17
23349	5 G 1	7,3	48,0	89,0	17
23350	5 x 1	7,3	48,0	89,0	17
23351	7 G 1	8,1	67,0	115,0	17

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
23352	7 x 1	8,1	67,0	115,0	17
23353	10 G 1	9,8	96,0	166,0	17
23354	12 G 1	10,4	115,0	201,0	17
23355	18 G 1	12,9	173,0	289,0	17
23356	25 G 1	15,4	240,0	380,0	17
23357	34 G 1	17,9	326,0	645,0	17
23358	42 G 1	19,4	403,0	730,0	17
23359	50 G 1	21,2	480,0	890,0	17
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	12,0	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	11,0	154,0	291,0	12
23380	5 G 4	12,3	192,0	355,0	12
23381	7 G 4	13,6	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	16,4	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	20,0	614,0	1063,0	6

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