



Technical data

- Special PUR cables adapted to DIN VDE 0245, 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 MΩhm 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
- **Oil resistant** PVC core insulation TI2, in adapted to DIN VDE 0281 part 1, for better sliding abilities
- Black cores with continuous white figure imprint 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 TMPU, to DIN VDE 0282 part 10, appendix A
- Sheath colour grey (RAL 7001)
- Jacket also available in other colours
- with meter marking, change-over in 2009

Properties

- **Resistant to**
UV-Radiation, Oxygene
Ozone and hydrolysis
Microbes
- 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:**
F-C-PURö-JZ, see page A 54
Yö-C-PURö-JZ, see page A 56

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 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 app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.	Part No.	No. cores x cross-sec. mm ²	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
22100	2 x 0,5	4,8	9,6	45,0	20	22132	2 x 1	5,7	19,0	53,0	17
22101	3 G 0,5	5,1	14,4	55,0	20	22133	3 G 1	6,0	29,0	63,0	17
22102	4 G 0,5	5,7	19,0	65,0	20	22134	4 G 1	6,6	38,0	75,0	17
22103	5 G 0,5	6,2	24,0	75,0	20	22135	5 G 1	7,1	48,0	89,0	17
22104	7 G 0,5	7,2	33,6	90,0	20	22136	7 G 1	8,6	67,0	115,0	17
22105	8 G 0,5	8,0	38,0	105,0	20	22137	8 G 1	9,4	77,0	131,0	17
22106	10 G 0,5	8,8	48,0	120,0	20	22138	10 G 1	10,2	96,0	166,0	17
22107	12 G 0,5	9,1	58,0	135,0	20	22139	12 G 1	10,7	115,0	201,0	17
22108	14 G 0,5	9,5	67,0	170,0	20	22140	14 G 1	11,5	134,0	230,0	17
22109	18 G 0,5	10,7	86,0	205,0	20	22141	18 G 1	12,9	173,0	289,0	17
22110	21 G 0,5	12,0	96,0	225,0	20	22142	21 G 1	14,1	196,0	306,0	17
22111	25 G 0,5	13,2	120,0	270,0	20	22143	25 G 1	14,9	240,0	380,0	17
22112	30 G 0,5	13,5	144,0	315,0	20	22144	32 G 1	16,7	308,0	620,0	17
22113	34 G 0,5	14,7	163,0	380,0	20	22145	34 G 1	17,4	326,0	645,0	17
22114	42 G 0,5	15,8	202,0	415,0	20	22146	42 G 1	18,8	403,0	730,0	17
22115	50 G 0,5	17,5	240,0	550,0	20	22147	50 G 1	20,9	480,0	890,0	17
22116	2 x 0,75	5,4	14,4	44,0	18	22148	2 x 1,5	6,2	29,0	68,0	16
22117	3 G 0,75	5,7	21,6	53,0	18	22149	3 G 1,5	6,6	43,0	87,0	16
22118	4 G 0,75	6,2	29,0	64,0	18	22150	4 G 1,5	7,2	58,0	106,0	16
22119	5 G 0,75	6,8	36,0	76,0	18	22151	5 G 1,5	8,0	72,0	131,0	16
22120	7 G 0,75	8,1	50,0	96,0	18	22152	7 G 1,5	9,6	101,0	173,0	16
22121	8 G 0,75	8,7	58,0	111,0	18	22153	8 G 1,5	10,5	115,0	199,0	16
22122	10 G 0,75	9,6	72,0	140,0	18	22154	10 G 1,5	11,4	144,0	245,0	16
22123	12 G 0,75	9,9	86,0	170,0	18	22155	12 G 1,5	12,0	173,0	293,0	16
22124	14 G 0,75	10,4	101,0	202,0	18	22156	14 G 1,5	12,5	202,0	347,0	16
22125	18 G 0,75	11,9	130,0	260,0	18	22157	18 G 1,5	14,1	259,0	454,0	16
22126	21 G 0,75	13,3	151,0	269,0	18	22158	21 G 1,5	15,0	302,0	534,0	16
22127	25 G 0,75	14,5	180,0	282,0	18	22159	25 G 1,5	16,8	360,0	641,0	16
22128	30 G 0,75	15,0	216,0	400,0	18	22160	30 G 1,5	18,0	410,0	800,0	16
22129	34 G 0,75	16,3	245,0	475,0	18	22161	34 G 1,5	19,5	490,0	945,0	16
22130	42 G 0,75	17,7	302,0	600,0	18	22162	42 G 1,5	21,1	605,0	1100,0	16
22131	50 G 0,75	19,4	360,0	720,0	18	22163	50 G 1,5	25,4	720,0	1250,0	16

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

Continuation ▶

PURÖ-JZ tear and coolant resistant, increased oil resistant, meter marking



Part No.	No. cores x cross-sec. mm ²	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.	Part No.	No. cores x cross-sec. mm ²	Outer ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
22164	2 x 2,5	7,8	48,0	110,0	14	22181	3 G 10	15,2	288,0	555,0	8
22165	3 G 2,5	8,3	72,0	146,0	14	22182	4 G 10	16,9	384,0	720,0	8
22166	4 G 2,5	9,2	96,0	183,0	14	22183	5 G 10	18,7	480,0	894,0	8
22167	5 G 2,5	10,1	120,0	222,0	14	22184	7 G 10	20,9	672,0	1295,0	8
22168	7 G 2,5	12,3	168,0	293,0	14						
22169	12 G 2,5	15,3	288,0	512,0	14	22185	4 G 16	19,8	614,0	1063,0	6
22170	18 G 2,5	18,2	432,0	740,0	14	22186	5 G 16	22,2	768,0	1400,0	6
22171	25 G 2,5	22,3	600,0	940,0	14	22187	7 G 16	29,3	1075,0	1800,0	6
22172	2 x 4	9,6	77,0	147,0	12	22188	4 G 25	29,4	960,0	1590,0	4
22173	3 G 4	10,4	115,0	228,0	12						
22174	4 G 4	11,4	154,0	291,0	12	22189	4 G 35	32,8	1344,0	2200,0	2
22175	5 G 4	12,7	192,0	355,0	12						
22176	7 G 4	14,0	269,0	503,0	12	22190	4 G 50	38,9	1920,0	2400,0	1
22177	3 G 6	12,1	173,0	362,0	10	22191	4 G 70	44,7	2688,0	4400,0	2/0
22178	4 G 6	13,4	230,0	468,0	10						
22179	5 G 6	14,9	288,0	570,0	10	22192	4 G 95	50,0	3648,0	6000,0	3/0
22180	7 G 6	16,5	403,0	808,0	10						

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

Our Service on the Internet

The screenshot shows the Helukabel website's navigation and contact section. At the top, there are links for 'Download centre' and 'Logistic centre'. A main navigation bar includes 'Company', 'Products', 'Quality', 'News', 'Contact', 'Service', 'Opinion', and 'Imprint'. A secondary navigation bar shows 'You are here: Home > Contact > Approach'. A dropdown menu under 'Approach' lists 'Subsidiaries and Agencies', 'Headquarters Hemmingen', 'Approach', and 'Contact person'. A search bar is located on the right. Below the navigation, there are three contact options: 'Contact', 'Approach', and 'Contact person'. The 'Approach' section contains a form with the text: 'To get in touch with us, we kindly ask you to fill out the following form. Your data will be handled confidentially and will not be passed to any third party. We will get in touch with you as soon as possible!'. On the right, there is a 'HELUKABEL world-wide' section with a world map and a 'please select...' dropdown menu.

Making contact

Your direct line to us. Here you can enter your most important contact data as well as the product area, also any information you would like. We will call you back as soon as possible.

www.helukabel.de