



TECHNICAL DATA

PUR control and connection cable in alignment with DIN VDE 0285-525-2-21 / DIN EN 50525-2-21

Temperature range	flexible -40°C to +90°C
Nominal voltage	0.5 - 1 mm²: AC U ₀ /U 300/500 V 1.5 - 16 mm²: AC U ₀ /U 450/750 V
Test voltage core/core	3000 V
Minimum bending radius	flexible 10x Outer-Ø fixed 5x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Core insulation: TPE
- Core identification acc. to DIN VDE 0293-308,
2 - 5 core(s): colour coded
6 - 41 core(s): black cores with consecutive labeling in white digits
- Protective conductor: starting with 3 cores,
G = with protective conductor GN-YE, in the outer layer,
x = without protective conductor
- Cores stranded in layers with optimal lay lengths
- Outer sheath: Special grade of full polyurethane in alignment with DIN VDE 0207-363-10-2 / DIN EN 50363-10-2 (compound type TMPU)
- Sheath colour: see table
- Length marking: in metres

PROPERTIES

- resistant to: oil, UV radiation, ozone, oxygen, weathering effects, hydrolysis, microbes, coolants, hydraulic fluids, acids, alkalis, greases, seawater and wastewater
- highly abrasion-resistant, notch-resistant, tear-resistant, cut-resistant, wear-resistant, low adhesion
- for outdoor use
- flexible in cold temperatures
- halogen-free
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

TESTS

- oil-resistant acc. to DIN VDE 0473-811-404 / DIN EN 60811-404 / IEC 60811-404
- UV-resistant acc. to DIN EN ISO 4892-2
- weather-resistant acc. to DIN EN ISO 4892-2

APPLICATION

Robust, flexible cable for use in dry, damp and wet rooms, as well as outdoors. 0.5-1 mm²: for connecting devices with light mechanical stress in households and offices (e.g. portable household appliances, hand lamps). 1.5-16 mm²: for connecting devices with medium mechanical stress in commercial and agricultural workshops (e.g. power tools such as drills, circular saws). When installed in pipes or similar closed systems, the cable is permitted for use up to and including 1000 V alternating voltage or 750 V direct voltage to earth.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only

No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.	blue (RAL 5015)	brown (RAL 8003)	yellow (RAL 1021)	grey (RAL 7001)	green (RAL 6018)	orange (RAL 2003)	red (RAL 3000)	violet (RAL 4005)
					Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
2 x 0.5	20	5.8	9.6	40.0	18120	18122	18123	18127	18121	18125	18124	18126
3 G 0.5	20	6.1	14.4	47.0	18130	18132	18133	18137	18131	18135	18134	18136
4 G 0.5	20	6.7	19.0	57.0	18140	18142	18143	18147	18141	18145	18144	18146
5 G 0.5	20	7.5	24.0	65.0	18150	18152	18153	18157	18151	18155	18154	18156
7 G 0.5	20	8.9	33.6	94.0	18160	18162	18163	18167	18161	18165	18164	18166
12 G 0.5	20	10.9	58.0	150.0	18170	18172	18173	18177	18171	18175	18174	18176
18 G 0.5	20	12.9	86.0	208.0	18180	18182	18183	18187	18181	18185	18184	18186
25 G 0.5	20	15.4	120.0	276.0	18190	18192	18193	18197	18191	18195	18194	18196
34 G 0.5	20	17.9	163.0	393.0	18200	18202	18203	18207	18201	18205	18204	18206
41 G 0.5	20	19.5	197.0	460.0	18210	18212	18213	18217	18211	18215	18214	18216
2 x 0.75	19	6.3	14.0	52.0	18220	18222	18223	18227	18221	18225	18224	18226
3 G 0.75	19	6.7	21.6	62.0	18230	18232	18233	18237	18231	18235	18234	18236
4 G 0.75	19	7.5	28.8	80.0	18240	18242	18243	18247	18241	18245	18244	18246
5 G 0.75	19	8.1	36.0	94.0	18250	18252	18253	18257	18251	18255	18254	18256
6 G 0.75	19	9.1	43.0	111.0	18260	18262	18263	18267	18261	18265	18264	18266



No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.	blue	brown	yellow	grey	green	orange	red	violet
					(RAL 5015) Part no.	(RAL 8003) Part no.	(RAL 1021) Part no.	(RAL 7001) Part no.	(RAL 6018) Part no.	(RAL 2003) Part no.	(RAL 3000) Part no.	(RAL 4005) Part no.
7 G 0.75	19	9.8	50.0	160.0	18270	18272	18273	18277	18271	18275	18274	18276
12 G 0.75	19	12.2	86.0	191.0	18280	18282	18283	18287	18281	18285	18284	18286
18 G 0.75	19	14.4	130.0	267.0	18290	18292	18293	18297	18291	18295	18294	18296
25 G 0.75	19	17.1	180.0	376.0	18300	18302	18303	18307	18301	18305	18304	18306
34 G 0.75	19	19.9	245.0	506.0	18310	18312	18313	18317	18311	18315	18314	18316
41 G 0.75	19	21.6	296.0	596.0	18320	18322	18323	18327	18321	18325	18324	18326
2 x 1	18	6.6	19.2	59.0	18330	18332	18333	18337	18331	18335	18334	18336
3 G 1	18	7.0	29.0	70.0	18340	18342	18343	18347	18341	18345	18344	18346
4 G 1	18	7.9	38.0	87.0	18350	18352	18353	18357	18351	18355	18354	18356
5 G 1	18	8.6	48.0	100.0	18360	18362	18363	18367	18361	18365	18364	18366
6 G 1	18	9.5	58.0	131.0	18370	18372	18373	18377	18371	18375	18374	18376
7 G 1	18	10.5	67.0	182.0	18380	18382	18383	18387	18381	18385	18384	18386
12 G 1	18	12.8	115.0	230.0	18390	18392	18393	18397	18391	18395	18394	18396
18 G 1	18	15.3	173.0	325.0	18400	18402	18403	18407	18401	18405	18404	18406
25 G 1	18	18.2	240.0	476.0	18410	18412	18413	18417	18411	18415	18414	18416
34 G 1	18	21.1	326.0	616.0	18420	18422	18423	18427	18421	18425	18424	18426
41 G 1	18	23.0	394.0	724.0	18430	18432	18433	18437	18431	18435	18434	18436
2 x 1.5	16	8.2	29.0	92.0	18440	18442	18443	18447	18441	18445	18444	18446
3 G 1.5	16	8.9	43.0	108.0	18450	18452	18453	18457	18451	18455	18454	18456
4 G 1.5	16	9.7	58.0	144.0	18460	18462	18463	18467	18461	18465	18464	18466
5 G 1.5	16	10.8	72.0	168.0	18470	18472	18473	18477	18471	18475	18474	18476
6 G 1.5	16	12.0	86.0	201.0	18480	18482	18483	18487	18481	18485	18484	18486
7 G 1.5	16	13.0	101.0	230.0	18490	18492	18493	18497	18491	18495	18494	18496
12 G 1.5	16	16.3	173.0	306.0	18500	18502	18503	18507	18501	18505	18504	18506
18 G 1.5	16	19.4	259.0	464.0	18510	18512	18513	18517	18511	18515	18514	18516
25 G 1.5	16	23.0	360.0	641.0	18520	18522	18523	18527	18521	18525	18524	18526
34 G 1.5	16	26.8	490.0	857.0	18530	18532	18533	18537	18531	18535	18534	18536
41 G 1.5	16	29.3	590.0	1010.0	18540	18542	18543	18547	18541	18545	18544	18546
2 x 2.5	14	9.6	48.0	120.0	18550	18552	18553	18557	18551	18555	18554	18556
3 G 2.5	14	10.4	72.0	148.0	18560	18562	18563	18567	18561	18565	18564	18566
4 G 2.5	14	11.4	96.0	184.0	18570	18572	18573	18577	18571	18575	18574	18576
5 G 2.5	14	12.7	120.0	224.0	18580	18582	18583	18587	18581	18585	18584	18586
7 G 2.5	14	15.3	168.0	301.0	18590	18592	18593	18597	18591	18595	18594	18596
12 G 2.5	14	19.2	288.0	489.0	18600	18602	18603	18607	18601	18605	18604	18606
2 x 4	12	11.4	77.0	149.0	18610	18612	18613	18617	18611	18615	18614	18616
3 G 4	12	12.3	115.0	240.0	18620	18622	18623	18627	18621	18625	18624	18626
4 G 4	12	13.7	154.0	297.0	18630	18632	18633	18637	18631	18635	18634	18636
5 G 4	12	15.2	192.0	360.0	18640	18642	18643	18647	18641	18645	18644	18646
7 G 4	12	18.4	268.0	540.0	18650	18652	18653	18657	18651	18655	18654	18656
2 x 6	10	12.8	115.0	240.0	18660	18662	18663	18667	18661	18665	18664	18666
3 G 6	10	13.8	173.0	370.0	18670	18672	18673	18677	18671	18675	18674	18676
4 G 6	10	15.4	230.0	472.0	18680	18682	18683	18687	18681	18685	18684	18686
5 G 6	10	17.0	288.0	581.0	18690	18692	18693	18697	18691	18695	18694	18696
7 G 6	10	20.8	403.0	698.0	18700	18702	18703	18707	18701	18705	18704	18706
3 G 10	8	17.3	288.0	560.0	18710	18712	18713	18717	18711	18715	18714	18716
4 G 10	8	19.4	384.0	718.0	18720	18722	18723	18727	18721	18725	18724	18726
5 G 10	8	21.4	480.0	896.0	18730	18732	18733	18737	18731	18735	18734	18736
3 G 16	6	23.0	461.0	940.0	18740	18742	18743	18747	18741	18745	18744	18746
4 G 16	6	25.4	614.0	1068.0	18750	18752	18753	18757	18751	18755	18754	18756
5 G 16	6	28.1	768.0	1810.0	18760	18762	18763	18767	18761	18765	18764	18766