



## TECHNICAL DATA

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

<b>Temperature range</b>	flexible -40°C to +90°C
<b>Nominal voltage</b>	0.5 - 1 mm <sup>2</sup> : AC U <sub>0</sub> /U 300/500 V 1.5 - 16 mm <sup>2</sup> : AC U <sub>0</sub> /U 450/750 V
<b>Test voltage core/core</b>	3000 V
<b>Coupling resistance</b>	at 30 MHz, approx. 250 Ohm/km
<b>Minimum bending radius</b>	flexible 12.5x Outer-Ø fixed 7.5x 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
- Foil wrapping
- Screen: braided screen of tinned copper wires, approx. coverage 85%
- 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, screened cable with good abrasion, wear resistance and high pressure resistance for use in dry, damp and wet rooms, as well as outdoors. EMC = Electromagnetic Compatibility; in order to optimise EMC properties, we recommend a double-sided and all-round large contact area of the copper braiding. 1.5-16 mm<sup>2</sup>: 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 (mm<sup>2</sup>) constructed, AWG numbers are approximated, and are for reference only

No. cores x cross-sec. mm <sup>2</sup>	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.	
2 x 0.5	20	6.4	35.0	46.0	19150	19152	19153	19157	19151	19155	19154	19156
3 G 0.5	20	6.8	42.0	56.0	19160	19162	19163	19167	19161	19165	19164	19166
4 G 0.5	20	7.5	47.0	62.0	19170	19172	19173	19177	19171	19175	19174	19176
5 G 0.5	20	8.1	56.0	75.0	19180	19182	19183	19187	19181	19185	19184	19186
7 G 0.5	20	9.6	69.0	98.0	19190	19192	19193	19197	19191	19195	19194	19196
12 G 0.5	20	11.6	108.0	158.0	19200	19202	19203	19207	19201	19205	19204	19206
18 G 0.5	20	13.9	145.0	216.0	19210	19212	19213	19217	19211	19215	19214	19216
25 G 0.5	20	16.4	240.0	315.0	19220	19222	19223	19227	19221	19225	19224	19226
34 G 0.5	20	18.7	312.0	371.0	19230	19232	19233	19237	19231	19235	19234	19236
41 G 0.5	20	20.7	348.0	442.0	19240	19242	19243	19247	19241	19245	19244	19246
2 x 0.75	19	6.9	40.0	60.0	19250	19252	19253	19257	19251	19255	19254	19256
3 G 0.75	19	7.5	52.0	68.0	19260	19262	19263	19267	19261	19265	19264	19266
4 G 0.75	19	8.1	60.0	78.0	19270	19272	19273	19277	19271	19275	19274	19276
5 G 0.75	19	9.0	71.0	95.0	19280	19282	19283	19287	19281	19285	19284	19286
6 G 0.75	19	9.7	80.0	112.0	19290	19292	19293	19297	19291	19295	19294	19296

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abrasion-resistant, flexible in cold temperatures, EMC-preferred type

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	10.6	91.0	138.0	19300	19302	19303	19307	19301	19305	19304	19306
12 G 0.75	19	12.8	142.0	207.0	19310	19312	19313	19317	19311	19315	19314	19316
18 G 0.75	19	15.4	212.0	293.0	19320	19322	19323	19327	19321	19325	19324	19326
25 G 0.75	19	18.1	281.0	413.0	19330	19332	19333	19337	19331	19335	19334	19336
34 G 0.75	19	21.1	345.0	523.0	19340	19342	19343	19347	19341	19345	19344	19346
41 G 0.75	19	22.8	400.0	609.0	19350	19352	19353	19357	19351	19355	19354	19356
2 x 1	18	7.2	50.0	65.0	19360	19362	19363	19367	19361	19365	19364	19366
3 G 1	18	7.8	60.0	76.0	19370	19372	19373	19377	19371	19375	19374	19376
4 G 1	18	8.5	71.0	89.0	19380	19382	19383	19387	19381	19385	19384	19386
5 G 1	18	9.4	88.0	108.0	19390	19392	19393	19397	19391	19395	19394	19396
6 G 1	18	10.1	97.0	141.0	19400	19402	19403	19407	19401	19405	19404	19406
7 G 1	18	11.1	111.0	187.0	19410	19412	19413	19417	19411	19415	19414	19416
12 G 1	18	13.8	184.0	240.0	19420	19422	19423	19427	19421	19425	19424	19426
18 G 1	18	16.3	260.0	335.0	19430	19432	19433	19437	19431	19435	19434	19436
25 G 1	18	19.4	349.0	484.0	19440	19442	19443	19447	19441	19445	19444	19446
34 G 1	18	22.3	486.0	627.0	19450	19452	19453	19457	19451	19455	19454	19456
41 G 1	18	24.2	531.0	738.0	19460	19462	19463	19467	19461	19465	19464	19466
2 x 1.5	16	9.0	63.0	97.0	19470	19472	19473	19477	19471	19475	19474	19476
3 G 1.5	16	9.5	80.0	119.0	19480	19482	19483	19487	19481	19485	19484	19486
4 G 1.5	16	10.6	97.0	152.0	19490	19492	19493	19497	19491	19495	19494	19496
5 G 1.5	16	11.5	119.0	168.0	19500	19502	19503	19507	19501	19505	19504	19506
6 G 1.5	16	12.6	121.0	218.0	19510	19512	19513	19517	19511	19515	19514	19516
7 G 1.5	16	14.0	147.0	243.0	19520	19522	19523	19527	19521	19525	19524	19526
12 G 1.5	16	17.1	267.0	317.0	19530	19532	19533	19537	19531	19535	19534	19536
16 G 1.5	16	19.5	315.0	473.0	-	-	-	11018126	-	-	-	-
18 G 1.5	16	20.6	374.0	481.0	19540	19542	19543	19547	19541	19545	19544	19546
25 G 1.5	16	24.2	526.0	674.0	19550	19552	19553	19557	19551	19555	19554	19556
34 G 1.5	16	28.2	629.0	881.0	19560	19562	19563	19567	19561	19565	19564	19566
41 G 1.5	16	30.8	801.0	1027.0	19570	19572	19573	19577	19571	19575	19574	19576
2 x 2.5	14	10.4	96.0	129.0	19580	19582	19583	19587	19581	19585	19584	19586
3 G 2.5	14	11.0	144.0	158.0	19590	19592	19593	19597	19591	19595	19594	19596
4 G 2.5	14	12.2	148.0	196.0	19600	19602	19603	19607	19601	19605	19604	19606
5 G 2.5	14	13.7	181.0	241.0	19610	19612	19613	19617	19611	19615	19614	19616
7 G 2.5	14	16.4	255.0	317.0	19620	19622	19623	19627	19621	19625	19624	19626
12 G 2.5	14	20.2	441.0	496.0	19630	19632	19633	19637	19631	19635	19634	19636
2 x 4	12	12.2	120.0	158.0	19640	19642	19643	19647	19641	19645	19644	19646
3 G 4	12	13.4	174.0	261.0	19650	19652	19653	19657	19651	19655	19654	19656
4 G 4	12	14.8	230.0	316.0	19660	19662	19663	19667	19661	19665	19664	19666
5 G 4	12	16.2	273.0	384.0	19670	19672	19673	19677	19671	19675	19674	19676
7 G 4	12	19.6	316.0	592.0	19680	19682	19683	19687	19681	19685	19684	19686
2 x 6	10	13.8	173.0	259.0	19690	19692	19693	19697	19691	19695	19694	19696
3 G 6	10	14.9	240.0	394.0	19700	19702	19703	19707	19701	19705	19704	19706
4 G 6	10	16.4	305.0	483.0	19710	19712	19713	19717	19711	19715	19714	19716
5 G 6	10	18.1	439.0	592.0	19720	19722	19723	19727	19721	19725	19724	19726
7 G 6	10	22.0	505.0	714.0	19730	19732	19733	19737	19731	19735	19734	19736
3 G 10	8	19.1	350.0	576.0	19740	19742	19743	19747	19741	19745	19744	19746
4 G 10	8	21.4	535.0	729.0	19750	19752	19753	19757	19751	19755	19754	19756
5 G 10	8	23.4	592.0	914.0	19760	19762	19763	19767	19761	19765	19764	19766
3 G 16	6	21.6	585.0	960.0	19770	19772	19773	19777	19771	19775	19774	19776
4 G 16	6	23.8	740.0	1813.0	19780	19782	19783	19787	19781	19785	19784	19786
5 G 16	6	26.5	895.0	1827.0	19790	19792	19793	19797	19791	19795	19794	19796

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