DATAFLAMM®

colour code DIN 47100, without colour repetition, low capacitance

TECHNICAL DATA

Data cable

Temperature range	flexible +5°C to +70°C fixed -40°C to +70°C
Peak operating voltage	0.14 mm²: 350 V 0.25 - 0.75 mm²: 500 V (not for high power current installation purposes)
Test voltage core/core:	0.14 mm²: 800 V 0.25 - 0.75 mm²: 1200 V
Mutual capacitance core/core	at 800 Hz, approx. 70 pF/m
Minimum bending radius	flexible 7.5x Outer-Ø fixed 4x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, 0.5 - 0.75 mm²: finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Wire structure:
  0.14 mm²: approx. 18 x 0.10 mm
  0.25 mm²: approx. 14 x 0.15 mm
  0.34 mm²: 7 x 0.25 mm
- Core insulation: PE acc. to DIN VDE 0819-103 / DIN EN 50290-2-23 (compound type LD/MD)
- Core identification in alignment with DIN 47100, colour coded, without colour repetition from the 45th core
- x = without protective conductor
- Cores stranded in layers with optimal lay lengths
- Outer sheath: thermoplastic compound acc. to DIN VDE 0207-24 (compound type HM2)
- Sheath colour: grey (RAL 7005)
- Length marking: in metres

PROPERTIES

- 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
- PE-insulated cores ensure substantially lower capacity values than PVC-insulated cores

TESTS

- halogen-free acc. to DIN VDE 0482-754-1 / DIN EN 60754-1 / IEC 60754-1
- corrosiveness of combustion gases acc. to DIN VDE 0482-754-2 / DIN EN 60754-2 / IEC 60754-2
- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2 (outer sheath)

APPLICATION

DATAFLAMM® halogen-free data cables are used as connection cables for signal, measurement and control technology, call systems and intercoms, clock systems, electronic weighing equipment and office machines. The cables can be laid on plaster and in dry, damp and wet rooms. Areas of application include telecommunication devices and information processing systems in public buildings, laboratories, department stores and other buildings where the release of halogens must be avoided in the event of fire. The halogen-free thermoplastic sheath does not emit corrosive or toxic gases.

NOTES

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

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
52300	2 x 0.14	26	3.2	2.6	14.0
52301	3 x 0.14	26	3.4	4.0	17.0
52302	4 x 0.14	26	3.6	5.3	19.0
52303	5 x 0.14	26	3.9	6.6	23.0
52304	6 x 0.14	26	4.2	7.9	25.0
52305	7 x 0.14	26	4.2	9.2	27.0
52306	8 x 0.14	26	4.7	10.3	30.0
52307	10 x 0.14	26	5.4	13.2	38.0
52308	12 x 0.14	26	5.6	16.0	45.0
52309	15 x 0.14	26	6.3	20.1	57.0
52310	18 x 0.14	26	6.6	23.7	65.0
52311	21 x 0.14	26	6.9	27.9	76.0
52312	25 x 0.14	26	7.8	33.4	88.0
52313	30 x 0.14	26	8.2	39.3	98.0
52314	34 x 0.14	26	9.0	45.5	111.0
52315	40 x 0.14	26	9.7	53.6	139.0
52316	50 x 0.14	26	10.6	64.9	764.0
52317	2 x 0.25	24	3.8	4.7	18.0
52318	3 x 0.25	24	4.0	7.1	21.0
52319	4 x 0.25	24	4.5	9.5	26.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
52320	5 x 0.25	24	4.9	12.0	31.0
52321	7 x 0.25	24	5.3	16.6	40.0
52322	10 x 0.25	24	6.8	24.0	56.0
52323	12 x 0.25	24	7.0	28.6	64.0
52324	15 x 0.25	24	7.9	36.0	80.0
52430	18 x 0.25	24	8.3	43.2	90.0
52431	21 x 0.25	24	8.9	50.4	105.0
52325	25 x 0.25	24	9.8	59.8	121.0
52326	34 x 0.25	24	11.3	81.3	168.0
52327	40 x 0.25	24	12.4	96.0	196.0
52328	2 x 0.34	22	4.6	6.4	25.0
52329	3 x 0.34	22	4.9	9.7	30.0
52330	4 x 0.34	22	5.3	13.0	35.0
52331	5 x 0.34	22	5.7	16.4	43.0
52332	7 x 0.34	22	6.4	22.7	58.0
52333	10 x 0.34	22	8.2	32.4	80.0
52334	12 x 0.34	22	8.5	39.1	91.0
52335	15 x 0.34	22	9.5	49.1	115.0
52336	18 x 0.34	22	10.0	59.1	135.0
52337	21 x 0.34	22	10.7	68.3	154.0

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Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
52338	25 x 0.34	22	12.0	81.4	180.0
52339	34 x 0.34	22	13.8	111.1	233.0
52340	40 x 0.34	22	15.1	130.5	272.0
52341	2 x 0.5	20	4.8	9.5	30.0
52342	3 x 0.5	20	5.1	14.2	36.0
52343	4 x 0.5	20	5.5	19.2	43.0
52344	5 x 0.5	20	6.2	24.0	56.0
52345	7 x 0.5	20	6.7	33.7	70.0
52346	10 x 0.5	20	8.6	48.0	101.0
52347	12 x 0.5	20	9.1	57.4	117.0
52348	15 x 0.5	20	10.0	72.0	145.0
52349	18 x 0.5	20	10.7	86.4	171.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
52350	21 x 0.5	20	11.3	101.0	197.0
52351	25 x 0.5	20	12.6	120.0	230.0
52352	30 x 0.5	20	13.5	142.6	269.0
52353	34 x 0.5	20	14.7	163.1	301.0
52354	40 x 0.5	20	15.8	192.0	365.0
52355	2 x 0.75	19	5.5	14.3	40.0
52356	3 x 0.75	19	6.0	21.5	51.0
52357	4 x 0.75	19	6.6	28.6	61.0
52358	5 x 0.75	19	7.1	36.1	76.0
52359	7 x 0.75	19	8.0	50.3	97.0
52360	10 x 0.75	19	10.4	72.0	137.0
52361	12 x 0.75	19	10.7	86.2	167.0