

# DATAFLAMM®-C

colour code DIN 47100, low capacitance, EMC-preferred type



HELUKABEL® DATAFLAMM®-C 4x0,5 QMM / 52413 500 V halogen-free CE

## TECHNICAL DATA

### Data cable

<b>Temperature range</b>	flexible +5°C to +70°C fixed -40°C to +70°C
<b>Peak operating voltage</b>	0.14 mm <sup>2</sup> : 350 V 0.25 - 0.75 mm <sup>2</sup> : 500 V (not for high power current installation purposes)
<b>Test voltage core/core</b>	0.14 mm <sup>2</sup> : 800 V 0.25 - 0.75 mm <sup>2</sup> : 1200 V
<b>Mutual capacitance core/core</b>	at 800 Hz, approx. 70 pF/m
<b>Coupling resistance</b>	at 30 MHz, approx. 250 Ohm/km
<b>Minimum bending radius</b>	flexible 7.5x Outer-Ø fixed 4x Outer-Ø

## CABLE STRUCTURE

- Copper wire bare, 0.5 - 0.75 mm<sup>2</sup>: finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Wire structure:  
0.14 mm<sup>2</sup>: approx. 18 x 0.10 mm  
0.25 mm<sup>2</sup>: approx. 14 x 0.15 mm  
0.34 mm<sup>2</sup>: 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 acc. to DIN 47100, colour coded
- x = without protective conductor
- Cores stranded in layers with optimal lay lengths
- Foil wrapping
- Drain wire, Tinned copper
- Screen: braided screen of tinned copper wires, approx. coverage 85%
- Foil wrapping
- 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

Used as a connection cable 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. Interference-free screening ensures protection against external pulse generators or high-frequency signals. EMC= Electromagnetic Compatibility; in order to optimise EMC properties, we recommend a double-sided and all-round large contact area of the copper braiding.

## NOTES

- the conductor is metrically (mm<sup>2</sup>) constructed, AWG numbers are approximated, and are for reference only

Part no.	No. cores x cross-sec. mm <sup>2</sup>	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
52365	2 x 0.14	26	3.8	12.4	21.0
52366	3 x 0.14	26	4.0	14.0	25.0
52367	4 x 0.14	26	4.3	15.8	26.0
52368	5 x 0.14	26	4.5	19.5	32.0
52369	7 x 0.14	26	5.0	23.4	39.0
52370	10 x 0.14	26	6.2	28.4	54.0
52371	12 x 0.14	26	6.3	31.4	69.0
52372	14 x 0.14	26	6.8	37.5	76.0
52373	16 x 0.14	26	7.1	43.4	82.0
52374	18 x 0.14	26	7.4	51.4	90.0
52375	21 x 0.14	26	7.7	61.8	102.0
52376	25 x 0.14	26	8.6	76.0	121.0
52377	30 x 0.14	26	9.0	92.7	146.0
52378	34 x 0.14	26	9.6	121.0	167.0
52379	40 x 0.14	26	10.4	126.1	170.0

Part no.	No. cores x cross-sec. mm <sup>2</sup>	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
52380	2 x 0.25	24	4.4	14.6	23.0
52381	3 x 0.25	24	4.6	17.0	28.0
52382	4 x 0.25	24	5.2	20.6	34.0
52384	5 x 0.25	24	5.7	24.7	42.0
52385	7 x 0.25	24	6.1	31.2	49.0
52386	10 x 0.25	24	7.6	42.1	81.0
52387	12 x 0.25	24	7.8	47.5	88.0
52388	14 x 0.25	24	8.3	52.7	100.0
52389	16 x 0.25	24	8.7	58.1	113.0
52390	18 x 0.25	24	9.1	78.0	126.0
52391	21 x 0.25	24	9.5	94.3	144.0
52392	25 x 0.25	24	10.6	116.5	164.0
52393	30 x 0.25	24	11.1	132.2	191.0
52394	34 x 0.25	24	12.1	144.6	214.0
52395	40 x 0.25	24	13.1	163.3	245.0

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52396	2 x 0.34	22	5.2	16.9	31.0	52413	4 x 0.5	20	6.3	35.3	57.0
52397	3 x 0.34	22	5.6	20.6	38.0	52414	5 x 0.5	20	7.0	52.5	77.0
52398	4 x 0.34	22	6.0	24.5	47.0	52415	7 x 0.5	20	7.5	65.3	92.0
52399	5 x 0.34	22	6.7	30.0	58.0	52416	10 x 0.5	20	9.4	88.7	135.0
52400	7 x 0.34	22	7.2	38.2	76.0	52417	12 x 0.5	20	9.6	98.7	148.0
52401	10 x 0.34	22	9.0	62.2	110.0	52418	18 x 0.5	20	11.3	141.2	210.0
52402	12 x 0.34	22	9.2	69.4	123.0	52419	21 x 0.5	20	12.0	161.0	242.0
52403	14 x 0.34	22	9.6	82.1	140.0	52420	25 x 0.5	20	13.4	187.2	285.0
52404	16 x 0.34	22	10.3	95.0	157.0	52421	30 x 0.5	20	14.1	223.2	340.0
52405	18 x 0.34	22	10.8	107.3	172.0	52422	40 x 0.5	20	16.7	294.9	445.0
52406	21 x 0.34	22	11.5	122.4	195.0	52423	2 x 0.75	19	6.3	30.6	45.0
52407	25 x 0.34	22	12.6	142.2	226.0	52424	3 x 0.75	19	6.8	38.1	60.0
52408	30 x 0.34	22	13.4	162.6	261.0	52425	4 x 0.75	19	7.3	58.0	80.0
52409	34 x 0.34	22	14.4	178.9	285.0	52426	5 x 0.75	19	7.9	68.4	97.0
52410	40 x 0.34	22	15.7	203.3	330.0	52427	7 x 0.75	19	8.7	88.4	127.0
52411	2 x 0.5	20	5.4	23.0	37.0	52428	10 x 0.75	19	11.0	122.5	175.0
52412	3 x 0.5	20	5.8	30.0	46.0	52429	12 x 0.75	19	11.5	137.2	196.0