DATAFLAMM®-C EMC-preferred type, halogen-free, screened, meter marking

Technical data

- Special data cable, halogen-free
- **Temperature range**
  flexing +5°C to +70°C
  fixed installation -40°C to +70°C
- **Operating peak voltage**
  (not for heavy current installation purposes)
  0,14 mm² = 350 V
  ≥ 0,25 mm² = 500 V
- **Test voltage**
  0,14 mm² = 800 V
  ≥ 0,25 mm² = 1200 V
- **Insulation resistance**
  min. 2 GOhm x km
- **Capacitance**
  core/core <70 nF/km
- **Minimum bending radius**
  7,5x cable Ø
- **Coupling resistance**
  max. 250 Ohm/km
- **Radiation resistance**
  up to 100x10⁶ cJ/kg (up to 100 Mrad)

Cable structure

- Bare copper-conductor, to DIN VDE 0812, fine-wire
- Conductor construction:
  0,34 mm² = 7x0,25 mm
- Core insulation of PE compound type L/MD to DIN VDE 0819-103 / DIN EN 50290-2-23
- Core identification to DIN 47100
- Cores twisted in layers with optimal lay-length
- Foil wrapping
- Tinned copper braided screen, approx. 85% coverage
- Outer sheath compound type HM2 to DIN VDE 0207 part 24
- Sheath colour grey (RAL 7005)
- with meter marking

Properties

- PE-insulated cores, compared with PVC-insulated cores, assure a remarkable and more favourable capacitance values

Tests

- Halogen-free to DIN VDE 0482 part 267, DIN EN 50267-2-1, IEC 60754-1 (equivalent DIN VDE 0472 part 815)
- Corrosiveness of combustion gases acc. to DIN VDE 0482 part 267, DIN EN 50267-2-2, IEC 60754-2 (equivalent DIN VDE 0472 part 813)
- Halogen-free sheath compound, self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

Note

- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- unscreened analogue type: **DATAFLAMM®**, confer page 130

Application

As a connecting and interconnecting cable for signaling, measuring, control and intercom purposes for the use in paging and intercom systems, clock systems, weighing equipment and office machines. The cables can be laid on or under plaster, in dry, damp and wet rooms as well as masonry and concrete. Areas of use are telecommunications and information processing systems in public buildings, laboratories, warehouses and other buildings in which the release of halogens in the event of fire must be avoided. Due to the shielding without interference against foreign encoder or high-frequency signals.

EMC = Electromagnetic compatibillity

To optimize the EMC features we recommend a large round contact of the copper braiding on both ends.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No.cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
52365	2 x 0,14	3,7	12,4	21,0	26
52366	3 x 0,14	3,9	14,0	25,0	26
52367	4 x 0,14	4,1	15,8	26,0	26
52368	5 x 0,14	4,4	19,5	32,0	26
52369	7 x 0,14	4,7	23,4	39,0	26
52370	10 x 0,14	5,9	28,4	54,0	26
52371	12 x 0,14	6,0	31,4	69,0	26
52372	14 x 0,14	6,4	37,5	76,0	26
52373	16 x 0,14	6,7	43,4	82,0	26
52374	18 x 0,14	7,0	51,4	90,0	26
52375	21 x 0,14	7,4	61,8	102,0	26
52376	25 x 0,14	8,3	76,0	121,0	26
52377	30 x 0,14	8,6	92,7	146,0	26
52378	34 x 0,14	9,4	121,0	167,0	26
52379	40 x 0,14	10,2	126,1	170,0	26
52380	2 x 0,25	4,3	14,6	23,0	24
52381	3 x 0,25	4,5	17,0	28,0	24
52382	4 x 0,25	4,8	20,6	34,0	24
52384	5 x 0,25	5,2	24,7	42,0	24
52385	7 x 0,25	5,6	31,2	49,0	24
52386	10 x 0,25	7,2	42,1	81,0	24
52387	12 x 0,25	7,3	47,5	88,0	24
52388	14 x 0,25	7,9	52,7	100,0	24
52389	16 x 0,25	8,3	58,1	113,0	24
52390	18 x 0,25	9,1	78,0	126,0	24
52391	21 x 0,25	9,5	94,3	144,0	24
52392	25 x 0,25	10,6	116,5	164,0	24
52393	30 x 0,25	11,1	132,2	191,0	24
52394	34 x 0,25	11,9	144,6	214,0	24
52395	40 x 0,25	13,0	163,3	245,0	24
52396	2 x 0,34	4,8	16,9	31,0	22
52397	3 x 0,34	5,1	20,6	38,0	22

Part no.	No.cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
52398	4 x 0,34	5,5	24,5	47,0	22
52399	5 x 0,34	6,0	30,0	58,0	22
52400	7 x 0,34	6,4	38,2	76,0	22
52401	10 x 0,34	8,0	62,2	110,0	22
52402	12 x 0,34	8,5	69,4	123,0	22
52403	14 x 0,34	9,0	82,1	140,0	22
52404	16 x 0,34	9,5	95,0	157,0	22
52405	18 x 0,34	10,2	107,3	172,0	22
52406	21 x 0,34	10,8	122,4	195,0	22
52407	25 x 0,34	12,2	142,2	226,0	22
52408	30 x 0,34	12,7	162,6	261,0	22
52409	34 x 0,34	13,7	178,9	285,0	22
52410	40 x 0,34	14,9	203,3	330,0	22
52411	2 x 0,5	5,1	23,0	37,0	20
52412	3 x 0,5	5,5	30,0	46,0	20
52413	4 x 0,5	5,9	35,3	57,0	20
52414	5 x 0,5	6,6	52,5	77,0	20
52415	7 x 0,5	7,1	65,3	92,0	20
52416	10 x 0,5	9,3	88,7	135,0	20
52417	12 x 0,5	9,4	98,7	148,0	20
52418	18 x 0,5	11,1	141,2	210,0	20
52419	21 x 0,5	12,0	161,0	242,0	20
52420	25 x 0,5	13,5	187,2	285,0	20
52421	30 x 0,5	14,2	223,2	340,0	20
52422	40 x 0,5	16,5	294,9	445,0	20
52423	2 x 0,75	5,9	30,6	45,0	19
52424	3 x 0,75	6,2	38,1	60,0	19
52425	4 x 0,75	6,9	58,0	80,0	19
52426	5 x 0,75	7,5	68,4	97,0	19
52427	7 x 0,75	8,1	88,4	127,0	19
52428	10 x 0,75	10,4	122,5	175,0	19
52429	12 x 0,75	10,9	137,2	196,0	19

Dimensions and specifications may be changed without prior notice. (RB01)