KOMPOSPEED® 600 / 600-C 0,6/1kV, halogen-free, special

single cores for drag chains, EMC-preferred type





Technical data

- Special drag chain single cores for high mechanical stress, adapted to DIN VDE 0285-525-2-31/ DIN EN 50525-2-31
- Temperature range flexing -30°C to +90°C fixed installation -40°C to +100°C
- Permissible operating temperature at conductor +90°C
- Nominal voltage U₀/U 600/1000 V
- Test voltage 3000 V
- Insulation resistance min. 20 MOhm x km
- Minimum bending radius KOMPOSPEED® 600

flexing installation 5x outer \emptyset fixed installation 3x outer \emptyset

KOMPOSPEED® 600-C

flexing installation 7,5x outer \emptyset fixed installation 4x outer \emptyset

Cable structure KOMPOSPEED® 600

- Tinned copper, extra fine wire conductors, bunch stranded to DIN VDE 0295 cl.6, col. 4, BS 6360 cl.6 and IEC 60228 cl.6
- Core insulation of special thermoplastic polymer, natural coloured
- Outer sheath of special polyolefin black (RAL 9005)

KOMPOSPEED® 600-C

- Structure as above up to core insulation
- Screen of tinned cu-braid, coverage approx. 85%
- Outer sheath of special polyolefin black (RAL 9005)

Properties

- Very good oil resistant
- Halogen free
- Abrasion resistant
- Resistant to

Coolants
Microbes
UV-radiation
Weather
Hydrofluoric acid
Hydrochloric acid
Diluted sulfuric acid

 The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Note

 AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application

The special single cores are used for permanent flexible applications in machineries, machine tools, composting appliances and sewage-treatment plants, animal stalls and greenhouses and used for permanent flexible application for movable automated machinery parts and multi-shift operation as well as in open air. These cables are installed for flexible use with free movements without tensile stress or forced movements and suitable for application in drag chains. The selected tinned copper wire conductor and tinned copper wire braid permit the installation in aggressive environments as well as hydrogen sulfide, ammonia and sulfur dioxide.

For applications which go beyond standard solutions (for example for composting appliances or high shelf conveyors with extremely high processing speeds etc.) we recommend for our especially developed enquiry sheet for energy guiding systems. Before installation in cable trays please read the instructions. Further technical details see selection table for drag chain cables, see lead text.

KOMPOSPEED® 600-C

These screened cables are particularly suitable for the interference-free trans mission in instrumentation and control engineering applications (electromagnetic compatibility).

EMC = Electromagnetic compatibility

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

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

KOMPOSPEED® 600

Part no.	No.cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg/km	Weight approx. kg/km	AWG-No.
60288	1 x 6	6,5	58,0	83,0	10
60289	1 x 10	8,4	96,0	132,0	8
60290	1 x 16	9,5	154,0	188,0	6
60291	1 x 25	11,2	240,0	281,0	4
60292	1 x 35	13,0	336,0	404,0	2
60293	1 x 50	15,4	480,0	531,0	1
60294	1 x 70	17,2	672,0	729,0	2/0
60295	1 x 95	20,0	912,0	1049,0	3/0
60296	1 x 120	21,0	1152,0	1220,0	4/0
60297	1 x 150	23,8	1440,0	1510,0	300 kcmil
60298	1 x 185	26,2	1776,0	1932,0	350 kcmil

Dimensions and specifications may be changed without prior notice. (RK01)

KOMPOSPEED® 600-C

Part no.	No.cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg/km	Weight approx. kg/km	AWG-No.
60216	1 x 6	7,3	71,0	101,0	10
60217	1 x 10	9,1	122,0	168,0	8
60218	1 x 16	10,1	180,0	217,0	6
60219	1 x 25	12,2	282,0	342,0	4
60220	1 x 35	14,2	386,0	468,0	2
60221	1 x 50	17,0	535,0	584,0	1
60222	1 x 70	19,2	750,0	822,0	2/0
60223	1 x 95	21,8	1004,0	1190,0	3/0
60224	1 x 120	23,8	1260,0	1400,0	4/0
60225	1 x 150	26,0	1570,0	1710,0	300 kcmil
60226	1 x 185	28,8	1911,0	2021,0	350 kcmil
62500	1 x 240	34,0	2470,0	2850,0	500 kcmil

