

# KOMPOSPEED® 600 / 600-C 0,6/1kV double-insulated, 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 0281 part 3
- **Temperature range**  
flexing -30°C to +90°C  
fixed installation -40°C to +100°C
- **Nominal voltage** U<sub>0</sub>/U 600/1000 V
- **Test voltage** 3000 V
- **Insulation resistance**  
min. 20 MΩm x km
- **Minimum bending radius**  
KOMPOSPEED 600  
flexing installation 5x cores Ø  
fixed installation 3x cores Ø  
KOMPOSPEED 600-C  
flexing installation 7,5x cores Ø  
fixed installation 4x cores Ø

## Cable construction

### 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
- 1. Core insulation of special thermoplastic polymer, natural coloured
- 2. Core insulation of special polyolefine, black (RAL 9005)

### KOMPOSPEED® 600-C

- Structure as above up to 1. core insulation
- Screen of tinned cu-braid, coverage approx. 85%
- 2. core-insulation of special polyolefine, black (RAL 9005)

## Properties

- Very good oil resistant
- Halogen free
- Abrasion resistant
- **Resistant to**  
Hydrofluoric acid  
Hydrochloric acid  
Diluted sulfuric acid  
Coolants  
Microbes  
UV-radiation  
Weather
- 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 mm<sup>2</sup>.

## 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.

**KOMPOSPEED® 600-C** These screened cables are particularly suitable for the interference-free transmission in instrumentation and control engineering applications (electromagnetic compatibility).

**EMC** = Electromagnetic compatibility.

For application as a protective core, the ends are to be identified with green-yellow shrink-on tubes.

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.

**CE** = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

### KOMPOSPEED® 600

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. 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	11,5	240,0	281,0	4
60292	1 x 35	13,2	336,0	404,0	2
60293	1 x 50	15,2	480,0	531,0	1
60294	1 x 70	16,7	672,0	729,0	2/0
60295	1 x 95	20,0	912,0	1049,0	3/0
60296	1 x 120	21,5	1152,0	1220,0	4/0
60297	1 x 150	23,5	1440,0	1510,0	300 kcmil
60298	1 x 185	26,0	1776,0	1932,0	350 kcmil

### KOMPOSPEED® 600-C

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. 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	10,2	180,0	217,0	6
60219	1 x 25	12,6	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	20,3	750,0	822,0	2/0
60223	1 x 95	21,3	1004,0	1190,0	3/0
60224	1 x 120	24,8	1260,0	1400,0	4/0
60225	1 x 150	26,0	1570,0	1710,0	300 kcmil
60226	1 x 185	29,0	1911,0	2021,0	350 kcmil

Dimensions and specifications may be changed without prior notice.