

# KOMPOSPEED® JZ-HF-500-C halogen-free, microbes resistant, Cu-screened, EMC-preferred type, cable for drag chains, meter marking



## Technical data

- Screened microbes resistant, halogen-free special control cable in adapted to DIN VDE 0285-525-2-51 / DIN EN 50525-2-51
- **Temperature range**  
flexing -30°C to +90°C  
fixed installation -40°C to +100°C
- **Nominal voltage**  $U_0/U$  300/500 V
- **Test voltage**  
core/core 4000 V  
core/screen 2000 V
- **Insulation resistance**  
min. 20 MOhm x km
- **Minimum bending radius**  
flexing 7,5x cable Ø
- **Coupling resistance**  
max. 250 Ohm/km
- **Radiation resistance**  
up to  $100 \times 10^6$  cJ/kg (up to 100 Mrad)

## Cable structure

- Tinned copper, extra fine wire conductors, bunch stranded to DIN VDE 0295 cl.6, BS 6360 cl.6 and IEC 60228 cl.6
- Core insulation of Special thermoplastic polymer with improved sliding ability
- Core identification to DIN VDE 0293 black cores with continuous white numbering
- GN-YE conductor, 3 cores and above in the outer layer
- Cores stranded in layers with optimal selected lay-length
- Wrapping with fleece
- Inner-sheath with special thermoplastic polymer
- Screen of tinned copper braid, coverage approx. 85%
- Wrapping of fleece guarantees a good dismantling
- Outer sheath of special thermoplastic polymer
- Sheath colour black (RAL 9005)
- with meter marking

## Properties

- **Resistant to**  
UV-radiation  
Oxygene  
Ozone  
Microbes  
Hydrofluoric acid  
Hydrochloric acid  
and diluted sulfuric acid
- Low adhesion
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

## Note

- G = with green-yellow conductor  
x = without green-yellow conductor (OZ)
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

## Application

HELUKABEL® KOMPOSPEED® JZ-HF-500-C control cable is significant due to its resistance against microbes. This cable is specially installed in rubbish, sewage-treatment plants, composting works, animal stalls and greenhouses. The inner sheaths of those cables raise the mechanical stress. For medium mechanical, stresses with free movement without tensile stress or forced movements in dry, moist and wet rooms as well as outside. This screened cable is ideal for use in data signal transmission free from interferences for measurement and control engineering technology. 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.

**EMC** = Electromagnetic compatibility

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. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
26347	2 x 0,5	6,9	47,0	90,0	20
26348	3 G 0,5	7,2	52,0	101,0	20
26349	4 G 0,5	7,8	55,0	119,0	20
26350	5 G 0,5	8,3	65,0	121,0	20
26351	6 G 0,5	9,1	70,0	144,0	20
26352	7 G 0,5	9,6	84,0	169,0	20
26353	12 G 0,5	11,3	117,0	250,0	20
26354	18 G 0,5	13,5	157,0	321,0	20
26355	25 G 0,5	15,8	227,0	445,0	20
26356	2 x 0,75	7,3	53,0	106,0	19
26357	3 G 0,75	7,8	62,0	116,0	19
26358	4 G 0,75	8,3	77,0	140,0	19
26359	5 G 0,75	9,1	86,0	148,0	19
26360	7 G 0,75	10,2	107,0	198,0	19
26361	12 G 0,75	12,6	156,0	294,0	19
26362	18 G 0,75	14,5	235,0	391,0	19
26363	25 G 0,75	17,3	313,0	562,0	19
26364	2 x 1	7,8	60,0	110,0	18
26365	3 G 1	8,1	70,0	131,0	18
26366	4 G 1	8,7	86,0	171,0	18

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
26367	5 G 1	9,5	99,0	179,0	18
26368	7 G 1	10,9	125,0	229,0	18
26369	12 G 1	13,1	186,0	348,0	18
26370	18 G 1	15,4	280,0	498,0	18
26371	25 G 1	18,6	378,0	669,0	18
26372	2 x 1,5	8,3	79,0	141,0	16
26373	3 G 1,5	8,7	94,0	162,0	16
26374	4 G 1,5	9,5	113,0	210,0	16
26375	5 G 1,5	10,2	129,0	233,0	16
26376	7 G 1,5	12,2	170,0	317,0	16
26377	12 G 1,5	14,5	280,0	471,0	16
26378	18 G 1,5	16,9	395,0	664,0	16
26379	25 G 1,5	20,6	533,0	914,0	16
26380	2 x 2,5	9,8	96,0	182,0	14
26381	3 G 2,5	10,5	150,0	264,0	14
26382	4 G 2,5	11,2	174,0	350,0	14
26383	5 G 2,5	12,6	200,0	394,0	14
26384	7 G 2,5	14,8	240,0	450,0	14
26385	12 G 2,5	18,0	410,0	712,0	14

Dimensions and specifications may be changed without prior notice. (RC03)