

GAALFLEX® VFD 9YSLCY-J and 9YSLCYK-J

Inverter, connection to frequency converters, (UV resistant), 0,6/1 kV



Construction:

Conductor:	flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Insulation:	PP compound
Cores color:	(9YSLCY-J) 4 cores: green/yellow, brown, black, grey (9YSLCYK-J) acc. to DIN VDE 0293-308, HD 308 S2 3 conductors + 3 earth conductors: grey, brown, black and green/yellow divided in interstices
Stranding:	in layers
Screen:	aluminium tape + PETP foil and tinned copper braid
Outer Sheath:	transparent, PVC type YM2 or black (similar RAL 9005), PVC compound

Resistance:



Self-extinguishing and flame retardant acc. to:
DIN VDE 0482 part 265-2-1,
EN 50265-2-1,
IEC 60332-1-2,
UL VW-1, CSA FT-1

Technical data:

Nominal voltage:	U ₀ /U 0,6/1 kV
Nominal voltage UL:	1000 V
Test voltage:	4 kV
Temperature range	
<i>Fixed laying:</i>	- 50 °C up to + 90 °C
<i>Flexible application:</i>	- 5 °C up to + 90 °C
Temperature range UL:	
<i>Fixed laying:</i>	- 40 °C up to + 80 °C
<i>Flexible application:</i>	- 5 °C up to + 80 °C
Min. bending radius	
<i>Single bending:</i>	4 x d
<i>Multiple bending:</i>	20 x d
Insulation resistance:	min. 200 MΩm x km
Transfer impedance at 30 MHz Ω/km:	< 250
Mutual capacitance (4 conductors version):	depending on the cross-section core/core 70 to 250 nF/km core/screen 110 to 410 nF/km

Features:

USA: acc. to NFPA 79 Ed 08
UV resistant (9YSLCYK-J)
outdoor use (9YSLCYK-J)
acc. to EN 61800-3
EN VDE 90°C rated PP insulation
EMC (electromagnetic compatibility)
interconnection between frequency converter and motor
used in paper, chemical and heavy industry
low coupling resistance
UL AWM Style 2570 1000 V 80°C VW-1
UL AWM //III A/B 1000 V 80° FT-1
RoHS and CE approval



Applications:

these motor power supply cables are flexible and have a special EMC performance due a double screened, low capacitance design. Ideal for frequency converters for variable speed. This cables are suitable in dry damp and wet rooms, Good resistance against acids, caustic solution, oils. Suitable for free, as well as static use, not suitable for continuously moving appliance under tensile load or if during flexing, accompanied by guidance.

GAALFLEX® VFD CABLES

GAALFLEX® VFD 9YSLCY-J and 9YSLCYK-J

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Part no.	No. of cores x cross section n x mm ²	Outer Ø Ca. mm ±10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no.*)
33130HT2041A16	4 G 1,5	10,5	87	230	16
33130HT2041A14	4 G 2,5	11,8	133	300	14
33130HT2041A12	4 G 4	13,3	213	485	12
33130HT2041A10	4 G 6	14,9	298	630	10
33130HT2041A08	4 G 10	17,7	460	860	8
33130HT2041A06	4 G 16	21,5	707	1290	6
33130HT2041A04	4 G 25	26,3	1100	1860	4
33130HT2041A02	4 G 35	29,7	1542	2610	2
33130HT2041A01	4 G 50	34,1	2206	2950	1
33130HT2041A2C	4 G 70	40,9	3002	3950	2/0
33130HT2041A3C	4 G 95	45,4	4004	5300	3/0
33130HT2041A4C	4 G 120	49,8	5108	6600	4/0
33130HT2041A5C	4 G 150	56,1	6225	7043	250 MCM
33130HT2041A7C	4 G 185	61,4	7658	8384	350 MCM
33130HT2041A9C	4 G 240	67,9	9940	12150	450 MCM
33140H72037A16	3 x 1,5 + 3 G 0,25	11,4	88	140	16 / 24
33140H72037A14	3 x 2,5 + 3 G 0,5	12,9	130	220	14 / 20
33140H72037A12	3 x 4 + 3 G 0,75	13,6	224	323	12 / 10
33140H72037A10	3 x 6 + 3 G 1	15,2	276	420	10 / 18
33140H72037A08	3 x 10 + 3 G 1,5	17,4	511	615	8 / 16
33140H72037A06	3 x 16 + 3 G 2,5	20	751	819	6 / 14
33140H72037A04	3 x 25 + 3 G 4	24,3	1204	1325	4 / 12
33140H72037A02	3 x 35 + 3 G 6	27,5	1535	1718	2 / 10
33140H72037A01	3 x 50 + 3 G 10	31,1	2156	2399	1 / 8
33140H72037A2C	3 x 70 + 3 G 10	37,1	2980	3056	2/0 / 8
33140H72037A3C	3 x 95 + 3 G 16	40	3953	4162	3/0 / 6
33140H72037A4C	3 x 120 + 3 G 16	42,6	4836	5074	4/0 / 6
33140H72037A5C	3 x 150 + 3 G 25	50	5412	6128	250 MCM / 4
33140H72037A7C	3 x 185 + 3 G 35	55,6	7077	7820	350 MCM / 2

Other dimension and colours available on request.