

FLEXIFESTOON® (N)GRDGÖU-J

Flexible round festoon cable acc. to VDE 0250 part 813 as far as applicable

ELETTROTEK KABEL® FLEXIFESTOON® (N)GRDGÖU-J



Construction:

Conductor:	flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Insulation:	rubber EPR type 3GI3 acc. to DIN VDE 0207
Bus cores and twisted pair screen:	synthetic tapes and tinned copper wires braid screen
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2 from 6 cores white cores with consecutive numbers acc. to EN 50334; green-yellow earth-wire from 3 cores
Stranding:	in layers
Inner sheath	rubber EPR type GM1b, acc. to DIN VDE 0207 part 21
Outer sheath:	black (similar to RAL 9005), rubber PCP type 5GM3, acc. to DIN VDE 0207 part 21

Resistance:



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



Oil resistance acc. to:
DIN VDE 0473 part 811-2-1
IEC EN 60811-2-1

Technical data:

Nominal voltage:	U ₀ /U 0,6/1 kV
Max. operating voltage in A.C. systems:	U ₀ /U 0,7/1,2 kV
Max. operating voltage in D.C. systems:	U ₀ /U 0,9/1,8 kV
Test voltage A.C.:	
Power cores:	3,5 kV
Control cores:	2,5 kV
Temperature range:	
Fixed laying:	-50°C up to +80°C
Flexible application:	-35°C up to +80°C
Max. temp on conductor:	
In service:	up to +90°C
In short circuit:	up to +250°C
Min. bending radius:	acc. to DIN VDE 0298 part 3
Tensile strenght:	
Static:	15 n/mm ²
Dynamic:	30 n/mm ²
Max. torsion:	± 25°/1mt.
Max speed (main application):	240 m/min

Features:

UV, ozone, moisture and water resistant

outdoor use

On request:

Marking UL 600 V or MSHA identified with "5" on the 5th number of the Part. no

GOST-R approval on request

for SPEEDS and MINIMUM BENDING RADIUS see pages from 2 to 8 of catalogue

RoHS and CE approval



Applications:

flexible power and control cable using for FESTOON SYSTEMS, cranes equipment, etc.

FESTOON CABLES

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Suitable for festoon application

POWER:

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	Tensile strength N	AWG no.®)
03090G7L010M63	1x25	11,5	240	325	375	4
03090G7L010M64	1x35	13,3	336	420	525	2
03090G7L010M65	1x50	16,6	480	620	750	1
03090G7L010M66	1x70	17,9	672	825	1050	2/0
03090G7L010M67	1x95	19,8	912	1060	1425	3/0
03090G7L010M68	1x120	22,1	1152	1337	1800	4/0
03090G7L010M69	1x150	24,4	1440	1642	2250	250 MCM
03090G7L010M70	1x185	26,8	1776	2004	2775	350 MCM
03090G72037M64	3x35+3G16/3	29,5	1161,6	1795	1575	2
03090G72037M65	3x50+3G25/3	34,5	1680	2535	2250	1
03090G72037M66	3x70+3G35/3	40,8	2352	3560	3150	2/0
03090G72037M66	3x95+3G50/3	42,5 max.	3216	4493	4275	3/0
03090G72041M40	4G4	14,9	153,6	330	240	12
03090G72041M60	4G6	17,1	230,4	468	360	10
03090G72041M61	4G10	19,4	360	685	600	8
03090G72041M62	4G16	24,1	614,4	1055	960	6
03090G72041M63	4G25	28,6	960	1595	1500	4
03090G72041M64	4G35	31,8	1344	2080	2100	2
03090G72041M65	4G50	37,5	1920	2960	3000	1
03090G72051M40	5G4	17	192	440	300	12
03090G72051M60	5G6	18,8	288	565	450	10
03090G72051M61	5G10	22,1	480	865	750	8
03090G72051M62	5G16	26,5	768	1287	1200	6
03090G72051M63	5G25	31,5 max.	1200	1990	1900	4

CONTROL:

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	Tensile strength N	AWG no.®)
03090G7A121M15	12G1,5	17,5	172,8	435	270	16
03090G7A181M15	18G1,5	20	388,8	610	405	16
03090G7A241M15	24G1,5	23,4	345,6	808	540	16
03090G7A301M15	30G1,5	24,7	432	936	675	16
03090G7A361M15	36G1,5	26,4	518,4	1080	810	16
03090G7A041M25	4G2,5	15,8	96	367	150	14
03090G7A071M25	7G2,5	19,8	168	600	262	14
03090G7A121M25	12G2,5	19,1	288	585	450	14
03090G7A181M25	18G2,5	22,8	432	872	650	14
03090G7A241M25	24G2,5	26	576	1100	900	14
03090G7A301M25	30G2,5	28,1	720	1345	1125	14
03090G7A361M25	36G2,5	30,2	864	1560	1350	14

BUS (TWISTED PAIRS SCREENED):

Part no.	No. of cores/pairs x cross section n x mm ²	Outer-Ø ca.mm ± 10%	Cable weight approx. kg/km	Tensile strength N	AWG no.®)
03090G7C032M10	3x(2x1)C	19,5	675	90	18
03090G7C062M05	6x(2x0,5)C	20,5	840	180	20
03090G7C062M10	6x(2x1)C	27	1260	180	18
03090G7C092M05	9x(2x0,5)C	27,5	1348	270	20
03090G7C092M10	9x(2x1)C	34	2002	270	18
03090G7C122M05	12x(2x0,5)C	28,5	1536	360	20
03100G7C120M10	(12x1)C	17	578	180	18

Other dimensions and colors available on request.