

FLEXIFESTOON® NE-FLAT (NGFLGÖU-J)

Rubber flat cables



ELETTROTEK KABEL® FLEXIFESTOON® NE-FLAT (NGFLGÖU-J)

Construction:

Conductor:	Flexible red copper conductor Cl. 6, acc to IEC 60228, DIN VDE 0295 (from 1 to 25 mm ²) Flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295 (from 35 to 90 mm ²)
Insulation:	rubber HEPR type 3G13 acc. to DIN VDE 0207
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2 from 6 cores black cores with consecutive numbers acc. to EN 50334; green-yellow earth-wire from 3 cores
Outer sheath:	special black rubber type 5GM3, to DIN VDE 0207 part21

Features:

- ▶ Extremely small bending radius
- ▶ high flexibility
- ▶ minimum waste of space
- ▶ pocketing possibility
- ▶ for SPEEDS and MINIMUM BENDING RADIUS see page 1,2,3/5,6 of catalogue
- ▶ flame retardant acc. to IEC 60332-1
- ▶ UV and ozone resistance
- ▶ 0,6/1 kV version on request
- ▶ cold resistant

Technical data:

Nominal voltage:	U/oU 300/500 V
Test voltage:	3 kV
Temperature range:	fixed installation: -50°C up to +80°C flexible installation: -35°C up to +80°C
Max. temperature on conductor:	in service: +90°C in short circuit: +250°C
Min. Bending radius:	5 x d
Radiation resistance:	up to 50x10 ⁶ cJ/kg (up to 50 Mrad)
Tensile strenght:	static: 15 n/mm ² dynamic: 30 n/mm ²
Max speed:	up to 180 m/min
Resistance:	Oil resistance: very good Chemical resistance: very good



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. *)
03010D72031M15	3G1,5	5,7x12,1	43	126	16
03010D72041M15	4G1,5	5,9x16,2	58	234	16
03010D72051M15	5G1,5	5,9x23,7	72	304	16
03010D70071M15	7G1,5	5,9x30,5	101	391	16
03010D70081M15	8G1,5	5,9x34	115	441	16
03010D70101M15	10G1,5	5,9x43,5	144	460	16
03010D70121M15	12G1,5	6,5x50,4	173	646	16
03011D70064M15	6x4G1,5	13x56	346	1290	16
03010D70241M15	24G1,5	11,7x51,6	346	1050	16
03010D72041M25	4G2,5	7,2x19,6	96	316	14
03010D72051M25	5G2,5	7,2x27,8	120	391	14
03010D70071M25	7G2,5	7,2x36,1	168	533	14
03010D70081M25	8G2,5	7,2x40,1	192	602	14
03010D70101M25	10G2,5	8x48	240	800	14
03010D70121M25	12G2,5	7,8x59,4	288	890	14
03011D70064M25	6x4G2,5	15,5x66,8	576	1480	14
03010D70241M25	24G2,5	15,4x68,9	576	1730	14
03010D72041M40	4G4	8,8x24,2	154	506	12
03010D72051M40	5G4	8,8x33,4	192	621	12
03010D70071M40	7G4	8,8x42,5	269	851	12

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. *)
03010D72041M60	4G6	9,6x27,4	230	661	10
03010D72051M60	5G6	9,6x37,4	288	740	10
03010D70071M60	7G6	9,6x47,2	403	1004	10
03010D72041M61	4G10	10,4x30,8	384	1027	8
03010D72051M61	5G10	10,4x41,6	480	1171	8
03010D70071M61	7G10	10,9x54,4	672	910	8
03010D72041M62	4G16	11,6x35,6	614	1430	6
03010D72051M62	5G16	12,2x48,2	768	1590	6
03010D70071M62	7G16	13x62,3	1075	1990	6
03010D72041M63	4G25	14,1x45,8	768	1890	4
03010D72051M63	5G25	14,7x58,3	1200	2215	4
03010D70071M63	7G25	15,3x78,7	1680	3000	4
03010D72041M64	4G35	15,8x50,8	1344	2460	2
03010D72051M64	5G35	16,4x64,4	1680	2880	2
03010D70071M64	7G35	16,4x86,4	2352	4100	2
03010D72041M65	4G50	18,6x62,6	1920	3385	1
03010D72041M66	4G70	21x68	2688	4480	2/0
03010D72041M67	4G95	24,1x78,6	3648	5990	3/0
03010D72041M68	4G120	25,5x84,2	4608	7240	4/0

Other construction and sizes are available on request

FESTOON CABLES

FLEXIFESTOON® HF-FLAT

Halogen-free flat cable 0,6/ 1 kV



ELETTROTEK KABEL® FLEXIFESTOON® HF-FLAT

Construction:

Conductor:	Flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Insulation:	halogen free compound acc. to DIN VDE 0207
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2 from 6 cores black cores with consecutive numbers acc. to EN 50334; green-yellow earth-wire from 3 cores
Outer sheath:	black special halogen-free compound

Applications:

- ▶ Power and control flat cables are used on FESTOON CABLES and handling equipment. Special design is where halogen-free and low smoke (nuclear plants)

Technical data:

Nominal voltage:	U _o U 0,6/1 kV
Test voltage:	3,5 kV
Temperature range:	fixed installation: -40°C up to +60°C flexible installation: -25°C up to +60°C
Tensile stress conductor:	static: 15 N/mm ² dynamic: 30 N/mm ²
Travelling festoon speed:	up to 120 m/min
Resistance:	Fire resistant: flame and fire retardant acc. to IEC 60332-1 Low smoke emissions: acc. to IEC 61034 Low toxicity: acc. to IEC 60754 Low corrosivity: acc. to IEC 60754 Chemical properties: for indoor and outdoor applications, moisture, UV and ozone resistant

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. *)
03020G72041M15	4G1,5	5,9x16,2	57,6	110	16
03020G72041M25	4G2,5	7,2x101,6	96	170	14
03020G72041M40	4G4	8,8x24,2	153,6	250	12
03020G72041M60	4G6	9,6x27,4	230,4	330	10
03020G72041M61	4G10	10,4x30,8	384	550	8
03020G72041M62	4G16	11,6x35,6	614,4	800	6
03020G72041M63	4G25	14,1x45,8	960	1350	4
03020G72041M64	4G35	15,8x50,8	1344	1800	2
03020G72041M65	4G50	18,6x60,2	1920	2400	1
03020G72041M66	4G70	21x68	2688	3250	2/0

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. *)
03020G70081M15	8G1,5	29x5	115,2	220	16
03020G70081M25	8G2,5	35x5	192,0	330	14
03020G70121M15	12G1,5	41x5	172,8	320	16
03020G70121M25	12G2,5	51x5,7	288	490	14

Other construction and sizes are available on request



FLEXIFESTOON® NE-FLAT (NGFLGÖU) UL



Construction:

Conductor:	Flexible red copper conductor Cl. 6, acc to IEC 60228, DIN VDE 0295 (from 1 to 25 mm ²) Flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295 (from 35 to 90 mm ²)
Insulation:	rubber HEPR type 3GI3
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2 from 6 cores black cores with consecutive numbers acc. to EN 50334; green-yellow earth-wire from 3 cores
Stranding:	cores laying parallel
Outer sheath:	black, special rubber type 5GM3, acc. to DIN VDE 0207 part 21, on request yellow

Features:

- ▶ Extremely small bending radius
- ▶ high flexibility
- ▶ minimum waste of space
- ▶ cold resistant
- ▶ UL STYLE 4540 90°C 600 V
- ▶ for SPEEDS and MINIMUM BENDING RADIUS see page 1,2,3/5,6 of catalogue

Technical data:

Nominal voltage:	U _{oU} 300/500 V (UL 600 V)
Test voltage:	3 kV
Temperature range:	fixed installation: -40°C up to +85°C flexible installation: -35°C up to +85°C
Max. temperature on conductor:	+90°C +250°C
in short circuit:	+ 250°C
Min. Bending radius:	5 x d
Resistance:	Oil resistance: very good Chemical resistance: very good

Other construction and sizes are available on request

Part no.	No. of cores x cross-section n x mm ²	Outer-Ø ca. mm ± mm	Copper weight kg/km	Cable weight approx. kg/km	AWG no. *)
03030F72041A16	4G1,5	5,4x16,3	58	200	16
03030F72051A16	5G1,5	5,4x20,9	72	250	16
03030F70071A16	7G1,5	5,4x27,6	101	310	16
03030F70081A16	8G1,5	5,4x30,7	115	350	16
03030F70101A16	10G1,5	6,1x39,2	144	480	16
03030F70121A16	12G1,5	6,1x45,5	173	560	16
03030F70241A16	24G1,5	12,5x53,5	345,6	1170	16
03030F72041A14	4G2,5	6,8x19,7	96	290	14
03030F72051A14	5G2,5	6,8x25	120	360	14
03030F70071A14	7G2,5	6,8x32	168	500	14
03030F70081A14	8G2,5	6,8x36,5	192	520	14
03030F70101A14	10G2,5	6,8x42	240	690	14
03030F70121A14	12G2,5	8,2x52,8	288	810	14
03030F70241A14	24G2,5	16x69,3	576	1600	14
03030F72041A12	4G4	8,1x23,3	154	400	12
03030F72051A12	5G4	8,1x28	192	530	12
03030F70071A12	7G4	8,1x38,3	269	690	12
03030F70041A10	4G6	8,9x26,4	230	550	10
03030F72051A10	5G6	8,9x33,2	288	620	10
03030F70071A10	7G6	8,9x43,9	403	920	10
03030F72041A08	4G10	10,2x31,8	384	800	8
03030F72051A08	5G10	10,2x39,8	480	1000	8

Part no.	No. of cores x cross-section n x mm ²	Outer-Ø ca. mm ± mm	Copper weight kg/km	Cable weight approx. kg/km	AWG no. *)
03030F70071A08	7G10	10,2x53,3	672	1400	8
03030F72041A06	4G16	12,0x37,2	614	1120	6
03030F72051A06	5G16	12,0x50	768	1420	6
03030F70071A06	7G16	12,5x63,5	1075	2360	6
03030F72041A04	4G25	13,2x43	960	1480	4
03030F72051A04	5G25	13,2x60	1200	2210	4
03030F70071A04	7G25	14,5x74,8	1680	3250	4
03030F72041A02	4G35	15,6x49,7	1344	2190	2
03030F70071A02	7G35	16,2x85,5	2352	4150	2
03030F72041A01	4G50	18,1x58,5	1920	3030	1
03030F72041A2C	4G70	21x69,3	2688	4340	2/0
03030F72041A3C	4G95	23,5x76,8	3648	5120	3/0
03030F72041A4C	4G120	25,8x85,5	4608	6350	4/0



FESTOON CABLES

FLEXIFESTOON® NE-FLAT CY ((N)GFLCGÖU)

Screened rubber flat cable



ELETTROTEK KABEL® FLEXIFESTOON® NE-FLAT CY ((N)GFLCGÖU)

Construction:

Conductor:	Flexible red copper conductor Cl. 6, acc to IEC 60228, DIN VDE 0295 (from 1 to 25 mm ²) Flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295 (from 35 to 120 mm ²)
Insulation:	rubber HEPR type 3GI3 acc. to DIN VDE 0207
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2 from 6 cores black cores with consecutive numbers acc. to EN 50334; green-yellow earth-wire from 3 cores
Stranding:	cores laying parallel
Cores:	cores screened individually or in bunches
Screen:	tinned copper braiding, approx. 80%
Outer sheath:	black, special rubber 5GM3

Features:

- ▶ Extremely small bending radius
- ▶ high flexibility
- ▶ minimum waste of space
- ▶ packaging possibility
- ▶ for SPEEDS and MINIMUM BENDING RADIUS see page 1,2,3/5,6 of catalogue
- ▶ UV and ozone resistance
- ▶ 0,6/1 kV version on request
- ▶ cold resistant

Technical data:

Nominal voltage:	U _o U 300/500 V
Test voltage:	3 kV
Temperature range:	fixed installation: -50°C up to +80°C flexible installation: -35°C up to +80°C
Max. temperature on conductor:	in service: +90°C in short circuit: +250°C
Min. bending radius:	10 x d
Radiation resistance:	up to 50x10 ⁶ cJ/kg (up to 50 Mrad)
Tensile strength:	static: 15 N/mm ² dynamic: 30 N/mm ²
Max speed:	up to 180 mt/min.
Resistance:	Oil resistance: very good Chemical resistance: very good Fire performance: acc. to VDE 0472 part 804 and IEC 60332-1, test method B



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. *)	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. *)
03040D70121M10	12G1	6,85x49,75	-	653	18	03040D72041M60	4G6	10,4x29,8	302	600	10
03040D72041M15	4G1,5	7,15x19	-	250	16	03040D72041M61	4G10	12,3x37,4	472	850	8
03040D70081M15	8G1,5	7,9x42	231	260	16	03040D72041M62	4G16	14,0x42,4	687	1158	6
03040D70121M15	12G1,5	7,9x61	346	380	16	03040D72041M63	4G25	15x47	-	1605	4
03040D72041M25	4G2,5	8,5x25,5	164	250	14	03040D72041M64	4G35	17x55	-	2520	2
03040D70061M25	6G2,5	8,5x34,5	247	365	14	03040D72041M65	4G50	20,5x66	-	3000	1
03040D70121M25	12G2,5	8,9x68	494	620	14	03040D72041M66	4G70	-	-	-	2/0
03040D72041M40	4G4	11x32,2	219	455	12	03040D72041M67	4G95	-	-	-	3/0
						03040D72041M68	4G120	29x92	4935	7280	4/0
						03040D70042M10	4x(2G1)	11x32,8	477	663	18
						03040D70062M10	6x(2x1)	12,5x54	263	1009	18
						03040D70062M25	6x(2G2,5)	15,2x63,3	-	1800	14

Other construction and sizes are available on request

FLEXIFESTOON® NE-FLAT M(StD)HÖU-J/O UL

Screened rubber flat cable, UL approval



ELETTROTEK KABEL® FLEXIFESTOON® NE-FLAT CY UL
UL style 4540 90°C 600 V FT-1 600 V

Construction:

Conductor:	Flexible red copper conductor Cl. 6, acc to IEC 60228, DIN VDE 0295 (from 1 to 25 mm ²) Flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295 (from 35 mm ²)
Wrapping:	PEPT tape
Insulation:	rubber HEPR type 3GI3 acc. to DIN VDE 0207
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2 from 6 cores black cores with consecutive numbers acc. to EN 50334; green-yellow earth-wire from 3 cores
Stranding:	cores laying parallel
Stranding pairs:	two cores and two filler twisted with short lay lenght wrapped with PETP tape, pairs laying parallel
Screen:	spinning of tinned copper wires + ALU /PEPT tape
Outer shaeth:	black (RAL 9005), special rubber 5GM3 acc. to DIN VDE 0207 part 21

Features:

- ▶ AWM STYLE 4540 90°C 600 V FT-1 600 V
- ▶ Extremely small bending radius
- ▶ high flexibility
- ▶ minimum waste of space
- ▶ packeting possibility
- ▶ for SPEEDS and MINIMUM BENDING RADIUS see page 1,2,3/5,6 of catalogue
- ▶ UV and ozone resistance
- ▶ cold resistant
- ▶ acc. to DIN VDE 0250 part 809 table 2

Technical data:

Nominal voltage:	U/oU 0,6/1 kV (UL 600 V)
Test voltage:	4kV
Temperature range:	
UL:	+90°C
fixed installation:	-40°C up to +80°C
flexible installation:	-30°C up to +80°C
Max. temperature on conductor:	
in service:	+90°C
in short circuit:	+250°C
Min. bending radius:	acc. to DIN VDE 0298 part 3 table 2
Radiation resistance:	up to 50x10 ⁶ cJ/kg (up to 50 Mrad)
static:	15 N/mm ²
dynamic:	30 N/mm ²
Max speed:	up to 180 mt/min.
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: very good Chemical resistance: very good

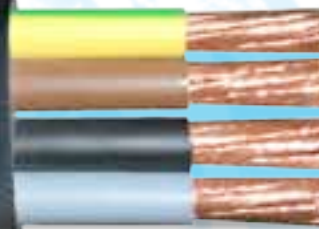
Part no.	No. of cores x cross-section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no. *)	Part no.	No. of cores x cross-section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no. *)
03190F72041A16	4G1,5	20,8x7,5	99	291	16	03190F72041A08	4G10	35,9x11,7	497	955	8
03190F72051A16	5G1,5	24,8x7,5	124	350	16	03190F72041A06	4G16	39,9x13,1	805	1254	6
03190F70081A16	8G1,5	38,1x7,5	228	537	16	03190F72041A04	4G25	45,5x14,2	1200	1694	4
03190F71080A16	8x1,5	38,1x7,5	228	537	16	03190F72041A02	4G35	53,1x16,4	1657	2282	2
03190F70121A16	12G1,5	55,3x7,5	343	795	16	03190F72041A01	4G50	63,2x19,2	2261	3130	1
03190F71120A16	12x1,5	55,3x7,5	343	795	16	03190F72041A2C	4G70	75x22,9	3259	4680	2/0
03190F72041A14	4G2,5	23,4x8,2	163	418	14	03190F72041A3C	4G95	79,1x24	4311	5605	3/0
03190F70061A14	6G2,5	32,5x8,2	245	535	14	03190F70042A18	4x2x1	32x11,7	156	525	18
03190F70121A16	12G2,5	63x8,2	493	1004	14	03190F70072A18	7x2x1	57,5x11,7	205	909	18
03190F72041A12	4G4	26,8x9	241	440	12	03190F70122A18	12x2x1	68,3x15,4	460	1500	18
03190F72041A10	4G6	29,7x9,7	353	603	10	03190F70122A18	4x(4G1,5)	40,6x11,5	440	900	16

Other construction and sizes are available on request

FLEXIFESTOON® PV-FLAT (H07VVH6-F)



ELETTROTEK KABEL® FLEXIFESTOON® PV-FLAT (H07VVH6-F)



Construction:

Conductor:	Flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Insulation:	PVC type Tl2
Stranding:	cores laying parallel
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2 from 6 cores black cores with consecutive numbers acc. to EN 50334; green-yellow earth-wire from 3 cores
Outer sheath:	black, special PVC compound

Features:

- ▶ **Extremely small bending radius**
- ▶ **high flexibility**
- ▶ **minimum waste of space**
- ▶ **pocketing possibility**
- ▶ **for SPEEDS and MINIMUM BENDING RADIUS see page 1,2,3/5,6 of catalogue**
- ▶ **flame retardant acc. to IEC 60332-1**
- ▶ **UV and ozone resistance**
- ▶ **0,6/1 kV version on request**

Technical data:

Nominal voltage:	U _{oU} 450/750 V
Test voltage:	2,5 kV
Temperature range:	
fixed installation:	-40°C up to +80°C
flexible installation:	-25°C up to +70°C
Max. temperature on conductor:	
in service:	+70°C
in short circuit:	+150°C
Min. Bending radius:	10 x d
Radiation resistance:	up to 80x10 ⁶ cJ/kg (up to 80 Mrad)
Tensile strenght:	
static:	15 n/mm ²
dynamic:	30 n/mm ²
Max speed:	up to 120 m/min
Resistance:	
	Fire performance: test method B acc. to DIN VDE 0472 part 804 and IEC 60332-1
	Chemical resistance: very good



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. *)
03050E72041M15	4G1,5	4,5x13,7	58	133	16
03050E72051M15	5G1,5	4,5x17,9	72	169	16
03050E70071M15	7G1,5	4,5x23,5	101	235	16
03050E70081M15	8G1,5	4,5x26,8	115	265	16
03050E71080M15	8x1,5	5x29	115	300	16
03050E70091M15	9G1,5	5x32	130	330	16
03050E70101M15	10G1,5	4,5x33,5	144	332	16
03050E70121M15	12G1,5	4,5x38,9	173	421	16
03050E70161M15	16G1,5	4,5x51,5	230,4	555	16
03050E70181M15	18G1,5	5x58	259,2	620	16
03050E70241M15	24G1,5	5x80	346	859	16
03050E72041M25	4G2,5	5,5x17	96	205	14
03050E72051M25	5G2,5	5,5x21,5	120	256	14
03050E70071M25	7G2,5	5,5x30,3	168	344	14
03050E70081M25	8G2,5	5,5x31,9	192	389	14
03050E70121M25	12G2,5	5,8x47,1	288	580	14
03050E70161M25	16G2,5	5,8x55,1	384	674	14
03050E70181M25	18G2,5	5,8x74	432	900	14

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. *)
03050E70064M25	6x(4G2,5)	15x63	576	950	14
03050E70241M25	24G2,5	5,8x120	576	950	14
03050E72041M40	4G4	7x21,8	154	344	12
03050E72051M40	5G4	7x27,4	192	428	12
03050E70071M40	7G4	7,9x36,6	269	590	12
03050E70121M40	12G4	6,8x57	460,8	880	12
03050E72041M60	4G6	8,2x24,8	230	424	10
03050E72051M60	5G6	8,2x31,8	288	530	10
03050E72071M60	7G6	8,2x42,6	403	760	10
03050E72041M61	4G10	10,0x29,6	384	710	8
03050E72041M62	4G16	11,2x34,4	614	1014	6
03050E72041M63	4G25	13,7x42,6	960	1365	4
03050E72041M64	4G35	15,4x47,6	1344	2100	2
03050E72041M65	4G50	18,2x57	1920	2940	1
03050E72041M66	4G70	20,5x64,2	2688	4090	2/0
03050E72041M67	4G95	20,5x72,5	3684	4550	3/0
03050E72051M40	5G4	6,9x26	192	390	12
03050E72051M60	5G6	7,6x29,5	288	530	10
03050E72051M61	5G10	9,4x36,5	480	868	8
03050E72051M62	5G16	13x46,6	768	1370	6
03050E72051M63	5G25	15,5x55,5	1200	2000	4

Other construction and sizes are available on request

FLEXIFESTOON® PV-FLAT UL



Construction:

Conductor:	Flexible red copper conductor class M for 16 AWG Flexible red copper conductor class K from 14 AWG up to 2 AWG
Insulation:	special PVC compound 105°C
Cores color:	acc. to ICEA Method 1-E2 (K-2)
Stranding:	cores laying parallel
Outer sheath:	yellow (RAL 1021), special PVC compound 105°C on request black (RAL 9005)

Features:

- ▶ UL subject 2273 for festoon cables
- ▶ UL 105°C 600 V
- ▶ CSA AWM I/II A/B 105°C 600 V
- ▶ Indoor and outdoor use
- ▶ UV resistant
- ▶ Extremely small bending radius
- ▶ high flexibility
- ▶ minimum waste of space
- ▶ cold resistant
- ▶ for SPEEDS and MINIMUM BENDING RADIUS see page 1,2,3/5,6 of catalogue

Technical data:

Nominal voltage:	Uo/U 0,6/1 kV V (UL: 600 V
Test voltage:	3,5 kV
Temperature range:	
fixed installation:	-55°C to +105°C
flexible installation:	-40°C to +80°C
Max. temperature on conductor:	+90°C (105°C)
in short circuit:	+ 150°C
Min. Bending radius:	10 x d
Tensile strenght:	
static:	15 n/mm ²
dynamic:	20 n/mm ²
Max. speed:	up to 120 m/min
Resistance:	Self-extinguishing and flame retardant: acc. to DIN VDE 0482 part. 265-2-1, EN 50265-2-1, IEC 60332-1, UL 1581 section 1100, UL VW-1, CSA AWM FT-1 Oil resistance: acc. to DIN VDE 0473 part 811-2-1, IEC EN 60811-2-1, CSA-C 22.2 No. 210-05, UL 1581 table 50.156 UV retardant: acc. to UL 62 after 720 hours

Part no.	No. of cores x cross-section n x AWG	Outer-Ø inches / mm ± 10%	Copper weight Lbs/Mft - kg/km	Cable weight approx. Lbs/Mft - kg/km
03220FYU040A16	4x16	0,6x0,2 - 15,2x5,1	-	107 - 160
03220FYU080A16	8x16	1,12x0,2 - 28,5x5,1	-	188 - 280
03220FYU120A16	12x16	1,68x0,2 - 42,6x5,1	-	282 - 420
03220FYU040A14	4x14	0,63x0,22 - 16x5,5	-	130 - 190
03220FYU080A14	8x14	1,18x0,22 - 30x5,5	-	230 - 340
03220FYU120A14	12x14	1,72x0,22 - 43,7x5,5	-	350 - 520
03220FYU040A12	4x12	0,72x0,24 - 18,3x6,1	-	170 - 250

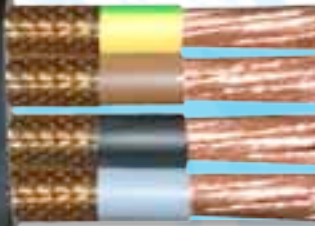
Part no.	No. of cores x cross-section n x AWG	Outer-Ø inches / mm ± 10%	Copper weight Lbs/Mft - kg/km	Cable weight approx. Lbs/Mft - kg/km
03220FYU040A10	4x10	0,89x0,27 - 22,6x6,9	-	255 - 380
03220FYU040A08	4x8	1,2x0,37 - 30,5x9,4	-	430 - 640
03220FYU040A06	4x6	1,45x0,43 - 36,8x10,9	-	620 - 920
03220FYU040A04	4x4	1,7x0,5 - 43,2x12,7	-	770 - 1 150
03220FYU040A02	4x2	2x0,6 - 50,8x15,3	-	1 310 - 1 950

Other construction and sizes are available on request

FLEXIFESTOON® PV-FLAT CY (VCVH6-F)



ELETTROTEK KABEL® FLEXIFESTOON® PV-FLAT CY (VCVH6-F)



Construction:

Conductor:	Flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Insulation:	PVC type Tl2
Stranding:	cores laying parallel
Cores:	cores screened individually or in bunches
Screen:	plain copper screened braiding, 85% covering
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2 from 6 cores black cores with consecutive numbers acc. to EN 50334; green-yellow earth-wire from 3 cores
Outer sheath:	black, special PVC

Features:

- ▶ **Extremely small bending radius**
- ▶ **high flexibility**
- ▶ **minimum waste of space**
- ▶ **pocketing possibility**
- ▶ **for SPEEDS and MINIMUM BENDING RADIUS see page 1,2,3/5,6 of catalogue**
- ▶ **flame retardant acc. to IEC 60332-1**
- ▶ **UV and ozone resistance**
- ▶ **possible tinned copper screen**

Technical data:

Nominal voltage: up to 1,5 mm ² : from 2,5 mm ² :	U/oU 300/500 V U/oU 0,6/1 kV
Test voltage: up to 1,5 mm ² : from 2,5 mm ² :	2 kV 2,5 kV
Temperature range: fixed installation: flexible installation:	-40°C up to +80°C -25°C up to +70°C
Max. temperature on conductor: in service: in short circuit:	+70°C +150°C
Min. Bending radius:	10 x d
Radiation resistance:	up to 80x10 ⁶ cJ/kg (up to 80 Mrad)
Tensile strenght: static: dynamic:	15 n/mm ² 30 n/mm ²
Max speed:	up to 120 m/min
Resistance:	Fire performance: test method B acc. to DIN VDE 0472 part 804 and IEC 60332-1 Chemical resistance: oil, acid and alkaline resistance

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. *)
03060D72041M05	5G0,5	3,4x21	64	92	20
03060D70054M05	5x(4G0,5)	7,2x37,4	175	280	20
03060D70089900	8x(7G0,5)	11,7x68,6	480	650	20
03060D70044M10	4x4G1	11x33,5	310	350	18
03060D72041M15	4G1,5	5,5x18	114	220	16
03060D70071M15	7G1,5	6,9x21	156	300	16
03060D70081M15	8G1,5	5,5x34	179	430	16
03060D70121M15	12G1,5	5,5x50	267	584	16
03060D72041M25	4G2,5	6,9x21	133	278	14

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. *)
03060D72051M25	5G2,5	10,5x35,9	189,3	396	14
03060D70061M25	6G2,5	7,8x37,4	205,3	430	14
03060D70071M25	7G2,5	14,4x48,2	229	475	14
03060D70121M25	12G2,5	6x47,6	385	550	14
03060D72041M40	4G4	7x23	222	360	12
03060D72041M60	4G6	9x29	313	580	10
03060D72041M61	4G10	11x37	522	900	8
03060D72041M62	4G16	14x46	784	1280	6
03060D72041M63	4G25	14,5x50	1163	1800	4
03060D72041M64	4G35	16x55	1549	2300	2

Other construction and sizes are available on request

H07RN-F

Rubber Sheathed cable, harmonized type



ELETTROTEK KABEL® H07RN-F

Construction:

Conductor:	Flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Insulation:	rubber type EI4 acc. to DIN VDE 0282 part 1
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2 from 6 cores black cores with consecutive numbers acc. to EN 50334; green-yellow earth-wire from 3 cores
Stranding:	cores stranded in layers with optimal lay-length
Outer sheath:	rubber EM2 compound acc. to DIN VDE 0282 part 1, black

Features:

- ▶ Ozone and weather resistant
- ▶ possible cold and high temp. version -50°C +85°C
- ▶ possible 0,6 1 kV version
- ▶ for SPEEDS and MINIMUM BENDING RADIUS see page 1,2,3/5,6 of catalogue

Technical data:

Nominal voltage:	U _{oU} 450/750 V
Test voltage:	2,5 kV
Temperature range:	fixed installation: -40°C up to +60°C flexible installation: -25°C up to +60°C
Min. Bending radius:	see MIN. BENDING RADIUS table
Tensile strenght:	15 N/mm ²
Resistance:	Fire resistant: Behaviour in fire to DIN VDE 0472 part 804, test method B and IEC 60332-1 Weather resistant: Ozone resistant to insulation to DIN VDE 0472 part 805, test method A or part 805 A1, test method C

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. *)
03070E7L010M15	1x1,5	6,4	14	58	16
03070E7L010M25	1x2,5	7,1	24	71	14
03070E7L010M40	1x4	8,1	38	100	12
03070E7L010M60	1x6	8,8	58	130	10
03070E7L010M61	1x10	10,7	96	230	8
03070E7L010M62	1x16	12,1	154	290	6
03070E7L010M63	1x25	14,2	240	420	4
03070E7L010M64	1x35	16,1	336	530	2
03070E7L010M65	1x50	18,5	480	750	1
03070E7L010M66	1x70	20,9	672	960	2/0
03070E7L010M67	1x95	23,4	912	1250	3/0
03070E7L010M68	1x120	24,8	1152	1560	4/0
03070E7L010M69	1x150	28,3	1440	1900	250 MCM
03070E7L010M70	1x185	31	1776	2300	350 MCM
03070E7L010M71	1x240	34,4	2304	2950	450 MCM
03070E7L010M72	1x300	37,7	2880	3600	550 MCM
03070E7L010M73	1x400	42,1	3840	4600	750 MCM
03070E7L010M74	1x500	46,6	4800	6000	1000 MCM
03070E73020M10	2x1	8,8	19	98	18
03070E73020M15	2x1,5	9,2	29	135	16
03070E73020M25	2x2,5	11,6	48	193	14
03070E73020M40	2x4	13,4	77	280	12
03070E73020M60	2x6	15	115	330	10
03070E73020M61	2x10	20,1	192	586	8
03070E73020M62	2x16	23,0	307	810	6
03070E73020M63	2x25	27,5	480	1160	4
03070E72031M10	3G1	9,5	29	130	18
03070E72031M15	3G1,5	10,5	43	165	16
03070E72031M25	3G2,5	12,4	72	235	14
03070E72031M40	3G4	14,4	115	320	12
03070E72031M40	3G6	16	173	420	10
03070E72031M61	3G10	21,6	288	810	8
03070E72031M62	3G16	24,7	461	1050	6
03070E72031M63	3G25	28	720	1250	4
03070E72031M64	3G35	33,2	1008	1900	2
03070E72031M65	3G50	38,5	1440	2600	1
03070E72031M66	3G70	43,3	2016	3400	2/0
03070E72031M67	3G95	48,6	2736	4450	3/0
03070E72031M68	3G120	53,8	3456	5180	4/0

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. *)
03070E72031M69	3G150	59	4320	6500	250 MCM
03070E72031M70	3G185	64,6	5328	7860	350 MCM
03070E72031M71	3G240	73,5	6192	10224	450 MCM
03070E72031M72	3G300	81	8640	12620	550 MCM
03070E72041M10	4G1	10,5	38	150	18
03070E72041M15	4G1,5	11,6	58	200	16
03070E72041M25	4G2,5	13,8	96	290	14
03070E72041M40	4G4	16	154	395	12
03070E72041M60	4G6	17,8	230	540	10
03070E72041M61	4G10	23,7	384	800	8
03070E72041M62	4G16	26,9	614	1260	6
03070E72041M63	4G25	32,7	960	1860	4
03070E72041M64	4G35	36,3	1334	2380	2
03070E72041M65	4G50	42,5	1920	3190	1
03070E72041M66	4G70	48,3	2688	4260	2/0
03070E72041M67	4G95	54,7	3638	5600	3/0
03070E72041M68	4G120	59,5	4608	6830	3/0
03070E72041M69	4G150	65,5	5760	8320	250 MCM
03070E72041M70	4G185	72	7104	9800	350 MCM
03070E72041M71	4G240	81,5	9216	12100	450 MCM
03070E72041M72	4G300	90,5	11520	15200	550 MCM
03070E72051M15	5G1,5	12,8	72	240	16
03070E72051M25	5G2,5	15,2	120	345	14
03070E72051M40	5G4	17,7	192	485	12
03070E72051M60	5G6	19,8	288	650	10
03070E72051M61	5G10	26	480	1200	8
03070E72051M62	5G16	29,8	768	1550	6
03070E72051M63	5G25	36,2	1200	2250	4
03070E72051M64	5G35	41,3	1680	2750	2
03070E72051M65	5G50	45,4	2400	3950	1
03070E70071M15	7G1,5	16	101	375	16
03070E70071M25	7G2,5	16,8	168	520	14
03070E70121M25	12G1,5	20	175	460	16
03070E70121M25	12G2,5	23,4	288	760	14
03070E70181M25	18G2,5	27,6	432	850	14
03070E70191M15	19G1,5	23,5	274	810	16
03070E70191M25	19G2,5	28,2	456	1075	14
03070E70241M15	24G1,5	27,5	346	1015	16
03070E70241M25	24G2,5	32,6	576	1390	14

Other construction and sizes are available on request

FLEXIFESTOON® SOOW

EPDM/CPE cable, UL 600 V -40°C up to 90°C - CSA SOOW 600 V -40°C up to 90°C FT2 Water resistant, MSHA

ELETTROTEKKABEL® FLEXIFESTOON® SOOW
UL 600 V -40°C up to 90°C - CSA SOOW 600 V
-40°C up to 90°C FT2 Water resistant, MSHA

Construction:

Conductor:	Finely stranded red copper acc.to Cl. K, acc. to ASTM B-174
Insulation:	rubber EPDM compound
Cores color:	acc. to ICEA Method 1-E1 (K-1)
Outer sheath:	CPE compound, black RAL9005

Features:

- ▶ Flexible in cold weather
- ▶ abrasion, ozone, UV, chemical and Oil resistance
- ▶ water resistant
- ▶ (UL) 600 V -40°C up to 90°C
CSA 600 V -40°C up to 90°C FT2
- ▶ acc. to UL standard 62
- ▶ acc. to CSA 22.2 No. 49
- ▶ acc. to NEC 501.140 Class 1 div. 2
- ▶ acc. to NEC Article 400
- ▶ MSHA approval
- ▶ tinned copper conductor on request
- ▶ screened on request
- ▶ for SPEEDS and MINIMUM BENDING RADIUS see page 1,2,3/5,6 of catalogue

Technical data:

Nominal voltage:	600 V
Test voltage:	2kV
Temperature range:	
Fixed laying:	-40°C up to +90°C
Flexible application:	-40°C up to +90°C
Min. bending radius:	
Fixed installation:	4 x d
Flexible installation:	4 x d
Resistance:	Flame retardant: CSA FT2

Part no.	No. of cores x cross-section n x AWG	Outer Ø inches/mm ±10%	Current capacity at +30°C Amps	Copper weight Lbs/Mft-kg/km	Cable weight approx. Lbs/Mft - kg/km
03200F7K020A18	2 x 18	0,346 - 0,76	10	-	67 - 100
03200F7K030A18	3 x 18	0,365 - 9,27	10	-	84 - 125
03200F7K040A18	4 x 18	0,39 - 9,91	7	-	98 - 146
03200F7K050A18	5 x 18	0,465 - 11,81	5	-	116 - 173
03200F7K020A16	2 x 16	0,37 - 9,4	13	-	81 - 121
03200F7K030A16	3 x 16	0,39 - 9,91	13	-	94 - 140
03200F7K040A16	4 x 16	0,415 - 10,54	10	-	118 - 176
03200F7K050A16	5 x 16	0,495 - 12,57	8	-	143 - 213
03200F7K020A14	2 x 14	0,5 - 12,7	18	-	134 - 199
03200F7K030A14	3 x 14	0,525 - 13,34	18	-	169 - 252
03200F7K040A14	4 x 14	0,57 - 14,48	15	-	201 - 299
03200F7K050A14	5 x 14	0,668 - 16,97	12	-	272 - 405
03200F7K020A12	2 x 12	0,57 - 14,48	25	-	184 - 274
03200F7K030A12	3 x 12	0,595 - 15,11	25	-	224 - 333
03200F7K040A12	4 x 12	0,650 - 16,51	20	-	276 - 411
03200F7K050A12	5 x 12	0,713 - 18,11	16	-	318 - 473
03200F7K020A10	2 x 10	0,615 - 15,62	30	-	225 - 335
03200F7K030A10	3 x 10	0,66 - 16,76	30	-	299 - 445
03200F7K040A10	4 x 10	0,71 - 18,03	25	-	360 - 536
03200F7K050A10	5 x 10	0,77 - 19,56	20	-	409 - 609

Part no.	No. of cores x cross-section n x AWG	Outer Ø inches/mm ±10%	Current capacity at +30°C Amps	Copper weight Lbs/Mft-kg/km	Cable weight approx. Lbs/Mft - kg/km
03200F7K030A08	3 x 8	0,88 - 22,35	40	-	485 - 722
03200F7K040A08	4 x 8	0,953 - 24,21	35	-	619 - 921
03200F7K050A08	5 x 8	1,034 - 26,26	28	-	722 - 1074
03200F7K030A06	3 x 6	1,04 - 26,42	55	-	700 - 1042
03200F7K040A06	4 x 6	1,125 - 28,58	45	-	837 - 1246
03200F7K050A06	5 x 6	1,185 - 30,1	36	-	979 - 1457
03200F7K030A04	3 x 4	1,315 - 28,83	70	-	902 - 1342
03200F7K040A04	4 x 4	1,255 - 31,88	60	-	1144 - 1702
03200F7K050A04	5 x 4	1,348 - 34,24	48	-	1320 - 1964
03200F7K020A02	3 x 2	1,305 - 33,15	95	-	1277 - 1900
03200F7K040A02	4 x 2	1,455 - 36,96	80	-	1639 - 2439
03200F7K050A02	5 x 2	1,556 - 39,52	64	-	1925 - 2439

FLEXIFESTOON® SEOOW YELLOW

TPE/TPE cable, UL 600 V -60°C up to 105°C - CSA SEOOW 600 V -60°C up to 105°C FT2 Water resistant, MSHA

ELETTROTEKKABEL® FLEXIFESTOON® SEOOW YELLOW
UL 600 V -60°C up to 105°C - CSA SEOOW 600 V
-60°C up to 105°C FT2 Water resistant, MSHA



Construction:

Conductor:	Finely stranded red copper acc.to Cl. K, acc. to ASTM B-174
Insulation:	TPE compound
Cores color:	acc. to ICEA Method 1-E1 (K-1)
Outer sheath:	TPE compound, yellow

Features:

- ▶ Flexible in cold weather
- ▶ abrasion, ozone, UV, chemical and Oil resistance
- ▶ water resistant
- ▶ (UL) 600 V -40°C up to 90°C
CSA 600 V -40°C up to 90°C FT2
- ▶ acc. to UL standard 62
- ▶ acc. to CSA 22.2 No. 49
- ▶ acc. to NEC 501.140 Class 1 div. 2
- ▶ acc. to NEC Article 400
- ▶ acc. to Federal Spec JC580
- ▶ acc. to EPA 40 CFR part 26-C,
- ▶ heavy metals per table 1, TCLP method
- ▶ MSHA approval
- ▶ tinned copper conductor on request
- ▶ screened on request
- ▶ for SPEEDS and MINIMUM BENDING RADIUS see page 1,2,3/5,6 of catalogue

Technical data:

Nominal voltage:	600 V
Test voltage:	2 kV
Temperature range:	
Fixed laying:	-60°C up to +105°C
Flexible application:	-60°C up to +105°C
Min. bending radius:	
Fixed installation:	4 x d
Flexible installation:	4 x d
Resistance:	Flame retardant: CSA FT2

Part no.	No. of cores x cross-section n x AWG	Outer Ø inches/mm ±10%	Current capacity at +30°C Amps	Copper weight Lbs/Mft-kg/km	Cable weight approx. Lbs/Mft - kg/km
03210FYK020A18	2 x 18	0,342 - 8,69	10	-	53 - 79
03210FYK030A18	3 x 18	0,362 - 9,19	10	-	63 - 94
03210FYK040A18	4 x 18	0,387 - 9,83	7	-	79 - 118
03210FYK020A16	2 x 16	0,367 - 9,32	13	-	64 - 95
03210FYK030A16	3 x 16	0,387 - 9,83	13	-	78 - 116
03210FYK040A16	4 x 16	0,412 - 10,46	10	-	93 - 138
03210FYK020A14	2 x 14	0,497 - 12,62	18	-	115 - 171
03210FYK030A14	3 x 14	0,522 - 13,26	18	-	138 - 205
03210FYK040A14	4 x 14	0,562 - 14,27	15	-	166 - 247

Part no.	No. of cores x cross-section n x AWG	Outer Ø inches/mm ±10%	Current capacity at +30°C Amps	Copper weight Lbs/Mft-kg/km	Cable weight approx. Lbs/Mft - kg/km
03210FYK020A12	2 x 12	0,567 - 14,4	25	-	151 - 225
03210FYK030A12	3 x 12	0,595 - 15,11	25	-	185 - 275
03210FYK040A12	4 x 12	0,642 - 16,31	20	-	227 - 338
03210FYK020A10	2 x 10	0,617 - 15,67	30	-	192 - 286
03210FYK030A10	3 x 10	0,652 - 16,56	30	-	244 - 363
03210FYK040A10	4 x 10	0,702 - 17,83	25	-	300 - 446

Other construction and sizes are available on request

ELETTROTEK KABEL® GAALWIND H07BN4-F

Construction:

Conductor:	Flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Insulation:	rubber EPR type E17
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2 from 6 cores black cores with consecutive numbers acc. to EN 50334; green-yellow earth-wire from 3 cores
Outer sheath:	black, special EPR, EM7 quality rubber

Features:

- ▶ Acc. to CENELEC HD 22.2, CEI 20-19
- ▶ torsion +/- 150°/1 m (single core)
- ▶ possible tinned copper conductors
- ▶ UV resistant
- ▶ for festoon applications
- ▶ acc. to CEI 20-19/12, CEI 20-35 (EN 60332-1), CENELEC HD 21.12 S1

Technical data:

Nominal voltage:	U ₀ /U 450/750 V			
Testing voltage:	3 kV			
Temperature range:	-45°C up to +90°C			
Max. short circuit temperature:	+ 250°C			
Min. Bending radius:	CEI 20-20/20-19			
Fixed lay cables:	D≤8	8<D≤12	12<D≤20	D>20
normal use:	4xD	5xD	6xD	6xD
accurate bending close to the terminal:	2xD	3xD	4xD	4xD
Flexible cables:	CEI 20-20			
fixed lay:	3xD	3xD	4xD	4xD
free move:	4xD	4xD	5xD	6xD
at the entrance to a portable device or a mobile equipment:				
- without cable stressing:	4xD	4xD	5xD	6xD
- without mechanical stress:	6xD	6xD	6xD	8xD
festoon i.e. for support crane	6xD	6xD	6xD	8xD
repeated wiring:	6xD	6xD	6xD	8xD
turned off on pulley:	8xD	8xD	8xD	8xD

SINGLE-CORES

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.*)
03080E7L010M15	1x1,5	5,9	14,4	50	16
03080E7L010M25	1x2,5	6,5	24	65	14
03080E7L010M40	1x4	7,4	38,4	89	12
03080E7L010M60	1x6	8,1	57,6	115	10
03080E7L010M61	1x10	10,4	96	190	8
03080E7L010M62	1x16	11,6	153,6	259	6
03080E7L010M63	1x25	13,7	240	375	4
03080E7L010M64	1x35	15,3	336	492	2
03080E7L010M65	1x50	17,7	480	675	1
03080E7L010M66	1x70	20	672	908	2/0
03080E7L010M67	1x95	22,1	912	1171	3/0
03080E7L010M68	1x120	24,5	1152	1445	4/0
03080E7L010M69	1x150	26,9	1440	1783	250 MCM
03080E7L010M70	1x185	28,9	1776	2125	350 MCM
03080E7L010M71	1x240	32,6	2304	2733	450 MCM
03080E7L010M72	1x300	36,7	2880	3348	550 MCM
03080E7L010M73	1x400	39,9	3840	4327	750 MVM
03080E7L010M74	1x500	45,8	4800	5450	950 MCM
03080E7L010M75	1x630	54	6048	6900	1200 MCM

Other construction and sizes are available on request

FESTOON CABLES

FLEXIFESTOON® (N)GRDGÖU-J

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



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 green-yellow earth-wire from 3 cores
Stranding:	maximum of 3 layers
Inner sheath:	EPR compound GM1b acc. to DIN VDE 0207 part 21
Outer sheath:	BLACK PCP compound 5GM3 acc. to DIN VDE 0207 part 21

Fea:

- ▶ Flexible power and control cable using for FESTOON CABLES, cranes equipment, etc.
- ▶ on request construction acc. to MSHA
- ▶ on request UL approval
- ▶ GOST-R approval on request
- ▶ for SPEEDS and MINIMUM BENDING RADIUS see page 1,2,3/5,6 of catalogue

Technical data:

Nominal voltage:	U _{oU} 0,6/1 kV
Max. operating voltage in A.C. systems:	U _{oU} 0,7/1,2 kV
Max. operating voltage in D.C. systems:	U _{oU} 0,9/1,8 kV
Test voltage A.C.:	
Power cores:	3,5 kV
Control cores:	2,5 kV
Temperature range:	
fixed installation:	-50°C up to +80°C
flexible installation:	-35°C up to +80°C
Max. operating temp. of the conductor:	+90°C
Short circuit temp. of the conductor:	+250°C
Tensile strenght:	
static:	15 N/mm ²
dynamic:	30 N/mm ²
Max. speed:	
reeling operation:	60 m/min
festoon system:	up to 240 m/min (please inquire for higher speeds)
Max. Torsion:	+/- 25°/m
Resistance:	
oil resistance:	DIN VDE 0473, part 811-2-1, par. 10
Flame retardant:	flame retardant acc. to IEC 60332-1 part 1
Weather resistance:	outdoor use, resistant to ozone, UV, moisture and water



FESTOON CABLES

FLEXIFESTOON® (N)GRDGÖU-J

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



ELETTROTEK KABEL® FLEXIFESTOON® (N)GRDGÖU-J



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. *)	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. *)
POWER							BUS (TWISTED PAIR SCREEN)						
03090G7L010M63	1x25	11,5	240	325	375	4	03090G7C032M10	3x(2x1)C	22,1	-	675	90	18
03090G7L010M64	1x35	13,3	336	420	525	2	03090G7C062M05	6x(2x0,5)C	23,6	-	840	180	20
03090G7L010M65	1x50	16,6	480	620	750	1	03090G7C062M10	6x(2x1)C	29,9	-	1260	180	18
03090G7L010M66	1x70	17,9	672	825	1050	2/0	03090G7C092M05	9x(2x0,5)C	30,1	-	1348	270	20
03090G7L010M67	1x95	19,8	912	1060	1425	3/0	03090G7C092M10	9x(2x1)C	37,8	-	2002	270	18
03090G7L010M68	1x120	22,1	1152	1337	1800	4/0	03090G7C122M05	12x(2x0,5)C	31,6	-	1536	360	20
03090G7L010M69	1x150	24,4	1440	1642	2250	250 MCM	03100G7C120M10	(12x1)C	19,5	-	578	180	18
03090G7L010M70	1x185	26,8	1776	2004	2775	350 MCM	Other construction and sizes are available on request						
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													
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							



FLEXIFESTOON® (N)GRDGGCÖU-J

Flexible screened round festoon cable



ELETTROTEK KABEL® FLEXIFESTOON® (N)GRDGGCÖU-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
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2 3 conductors + 3 earth conductors: grey, brown, black and green/yellow divided in 3 cores 4 cores: green/yellow, brown, black, grey
Stranding:	short lay-length for better flexibility
Inner sheath:	EPR compound GM1b
Screen:	tinned copper braid wires
Outer sheath:	BLACK PCP compound 5GM3

Features:

- ▶ Acc. to DIN VDE 0250 part814
- ▶ Used in FESTOON CABLES, for motor power supply cables
- ▶ good EMC characteristics
- ▶ GOST-R, WUG on request
- ▶ for SPEEDS and MINIMUM BENDING RADIUS see page 1,2,3/5,6 of catalogue

Technical data:

Nominal voltage:	U/oU 0,6/1 kV
Test voltage A.C.:	3,5 kV
Temperature range:	
fixed installation:	-50°C up to +80°C
flexible installation:	-35°C up to +80°C
Max. operating temp. of the conductor:	+90°C
Short circuit temp. of the conductor:	+250°C
Max. operating voltage in A.C. systems:	U/oU 0,7/1,2 kV
Max. operating voltage in D.C. systems:	U/oU 0,9/1,8 kV
Tensile strenght:	
static:	15 N/mm ²
dynamic:	30 N/mm ²
Max. speed:	
festoon system:	up to 240 m/min (please inquire for higher speeds)
Resistance:	
Oil resistant:	DIN VDE 0473, part 811-2-1, part. 10
Flame retardant:	flame retardant acc. to IEC 60332-1 part 1
Weather resistant:	outdoor use, ozone, UV, moisture and water



FESTOON CABLES

FLEXIFESTOON® (N)GRDGCGÖU-J

Flexible screened round festoon cable



ELETTROTEK KABEL® FLEXIFESTOON® (N)GRDGCGÖU-J

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.*)	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.*)
03100G72041M40	4G4	16,6	-	475	240	12	03100G72037M64	3x35+3G6	31,2	-	2150	1575	2
03100G72041M60	4G6	19,2	-	710	300	10	03100G72037M65	3x50+3G10	36,8	-	3101	2250	1
03100G72041M61	4G10	21,5	-	915	600	8	03100G72037M66	3x70+3G10	42,7	-	4105	3150	2/0
03100G72037M62	3x16+3G2,5	24	-	1145	720	6	03100G72037M67	3x95+3G16	45,9	-	5030	4275	3/0
03100G72037M63	3x25+3G4	27,2	-	1615	1125	4	03100G72037M68	3x120+3G16	50,6	-	5890	5400	4/0

Other construction and sizes are available on request



ELETTROTEK KABEL® FLEXIFESTOON® PUR

Construction:

Conductor:	Flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Insulation:	TPE special compound
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2 from 6 cores black cores with consecutive numbers acc. to EN 50334; green-yellow earth-wire from 3 cores
Supporting element:	central textile
Stranding:	specially adjusted layering around central suspension element
Wrapping:	non-woven tape
Outer sheath:	black (RAL 9005), PUR

Applications:

- ▶ **FLEXIFESTOON® PUR** is used as energy and control cable at very high mechanical stresses. For **FESTOON CABLES**, and machine tools or conveying systems. Possible drum reeling cable use.

Features:

- ▶ Halogen-free
- ▶ small outer diameter
- ▶ small cable weight
- ▶ high mechanical resistance
- ▶ for **SPEEDS** and **MINIMUM BENDING RADIUS** see page 1,2,3/5,6 of catalogue

Technical data:

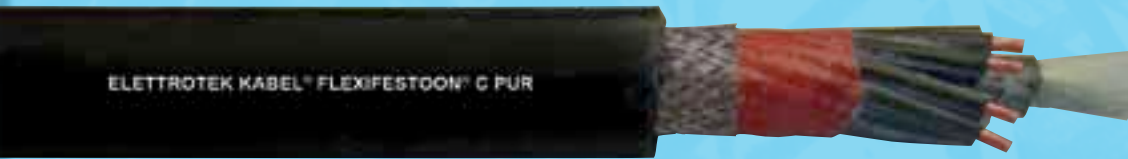
Nominal voltage:	U/oU 0,6/1 kV
Test voltage:	4 kV
Min. Bending radius:	6 x d
Temperature range:	fixed installation: -50°C up to +90°C flexible installation: -40°C up to +90°C
Max. temperature on conductor:	in service: +90°C in short circuit: +250°C
Min. Bending radius:	6 x d
Tensile strength:	up to 15 N/mm ²
Max. speed:	up to 240 m/min. Please inquire for higher speeds
Resistance:	Halogen-free: acc. to DIN VDE 0472 part 815 and IEC 60754-1 Oil resistance: very good Chemical resistance: acids, alkalines, solvents, hydraulic liquids, etc. Fire performance: flame retardant and self-extinguishing acc. to IEC/EN 60332-1-2 and EN 50265-2-1 UV-resistance: very good

Other construction and sizes are available on request

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.*)	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.*)
03110G7L010M62	1x16	8,7	153,6	179	6	03110G70241M15	24G1,5	17,7	345,6	477	16
03110G7L010M63	1x25	10,5	240	272	4	03110G70301M15	30G1,5	18,9	432	583	16
03110G7L010M64	1x35	12,1	226	377	2	03110G72031M25	3G2,5	8,3	72	109	14
03110G7L010M65	1x50	13,5	480	534	1	03110G72041M25	4G2,5	9,3	96	140	14
03110G7L010M66	1x70	15,8	672	712	2/0	03110G72051M25	5G2,5	10,1	120	174	14
03110G7L010M67	1x95	18,7	912	990	3/0	03110G70071M25	7G2,5	12,1	168	251	14
03110G7L010M68	1x120	20,4	1152	1187	4/0	03110G70121M25	12G2,5	15,0	288	379	14
03110G7L010M69	1x150	22,3	1440	1482	250 MCM	03110G70181M25	18G2,5	17,5	432	557	14
03110G7L010M70	1x185	24	1776	1781	350 MCM	03110G70241M25	24G2,5	21,1	576	732	14
03110G7L010M71	1x240	28,1	2304	2412	450 MCM	03110G70301M25	30G2,5	22,3	720	889	14
03110G72031M15	3G1,5	7,3	43,2	76	16	03110G72041M40	4G4	10,9	153,6	208	12
03110G72041M15	4G1,5	7,9	57,6	94	16	03110G72041M60	4G6	12,8	230,4	301	10
03110G72051M15	5G1,5	8,6	72	116	16	03110G72041M61	4G10	16,5	384	497	8
03110G70071M15	7G1,5	10,2	100,8	167	16	03110G72041M62	4G16	20,7	614,4	769	6
03110G70121M15	12G1,5	12,6	172,8	246	16	03110G72041M63	4G25	24,3	960	1125	4
03110G70181M15	18G1,5	15	259,2	369	16	03110G72041M64	4G35	28,5	1344	1585	2
						03110G72041M65	4G50	32,1	1920	2232	1
						03110G72051M61	5G10	18,2	480	616	8
						03110G72051M62	5G16	23,1	768	980	6
						03110G72051M63	5G25	27,1	1200	1434	4

FESTOON CABLES

FLEXIFESTOON® C PUR



ELETTROTEK KABEL® FLEXIFESTOON® C PUR

Construction:

Conductor:	Flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Insulation:	TPE special compound
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2 from 6 cores black cores with consecutive numbers acc. to EN 50334; green-yellow earth-wire from 3 cores
Supporting element:	central textile
Stranding:	specially adjusted layering around central suspension
Supporting screen:	high tech yarns
Screen:	tinned copper braiding
Outer sheath:	black (RAL 9005), PUR

Technical data:

Nominal voltage:	U _o U 0,6/1 kV
Test voltage:	4 KV
Temperature range:	
fixed installation:	-50°C up to +90°C
flexible installation:	-40°C up to +90°C
Max. temperature on conductor:	
in service:	+90°C
in short circuit:	+250°C
Min. Bending radius:	
(fixed laying):	< 12 mm 3 x d/12 mm 4 x d
free suspension length:	6 x d
Tensile strength:	up to 15 N/mm ²
Max. speed:	up to 240 m/min. Please inquire for higher speeds.
Resistance:	
	Halogen-free: acc. to DIN VDE 0472 part 815 and IEC 60754-1
	Oil resistance: very good
	Chemical resistance: acids, alkalines, solvents, hydraulic liquids, etc.
	Fire performance: flame retardant and self-extinguishing acc. to IEC/EN 60332-1-2 and EN 50265-2-1
	UV-resistance: very good

Applications:

- ▶ **FLEXIFESTOON® C PUR** is used as energy and control cable at very high mechanical stresses. For FESTOON CABLES and machine tools or conveying systems. Possible applicable as drum reeling cable use.

Features:

- ▶ Small outer diameter
- ▶ small cable weight
- ▶ high mechanical resistant
- ▶ for SPEEDS and MINIMUM BENDING RADIUS see page 1,2,3/5,6 of catalogue

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. *)	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. *)
03120G72037M40	3x4+3G4/3	-	-	-	240	12	03120G72037M63	3x25+3G16/3	-	-	-	1500	4
03120G72037M60	3x6+3G6/3	-	-	-	360	10	03120G72037M64	3x35+3G16/3	-	-	-	2500	2
03120G72037M61	3x10+3G10/3	-	-	-	600	8	03120G72037M65	3x50+3G25/3	-	-	-	3000	1
03120G72037M62	3x16+3G16/3	-	-	-	960	6	03120G72037M66	3x70+3G35/3	37,2	2535,4	2927	4000	2/0

Other construction and sizes are available on request