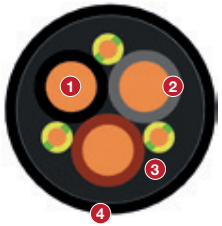
UTVFLEX® FESTOON

(N)GRDÖU-O/J

Based on DIN VDE 0250 Part 814

Power and control cable for festooning systems and connecting moveable parts of container cranes, industrial machines, material handling equipment, etc., under high mechanical stress and frequent bending.



1 PHASE CONDUCTORS
MATERIAL: bare flexible copper
CONSTRUCTION: class 5 VDE 0295 (IEC 60228)

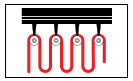
2 INSULATION
MATERIAL: 3GI3 quality rubber compound, according to VDE 0270 Part 20

SHIELD (WHERE APPLICABLE)
braid screen of tinned copper wires, approx coverage 80%

3 INNER SHEATH
MATERIAL: rubber compound EPR based, GM1b quality according to VDE 0270 Part 21

4 OUTER SHEATH
MATERIAL: special rubber compound at least 5GM3 quality, according to VDE 0270 Part 21
COLOUR: black

APPLICATION



ELECTRICAL WORKING DATA

Nominal rated voltage U_0 / U	kV	0,6/1
Test voltage	kV	4
Max AC voltage	kV	0,7/1,2
Max DC voltage	kV	1,8
Current rating	A	According to VDE 0298 Part 4

THERMAL WORKING DATA

Maximum short circuit temperature	°C	250
Maximum working temp. on the conductor	°C	90
Minimum ambient temperature	°C	Mobile condition: –30 Static condition: –50

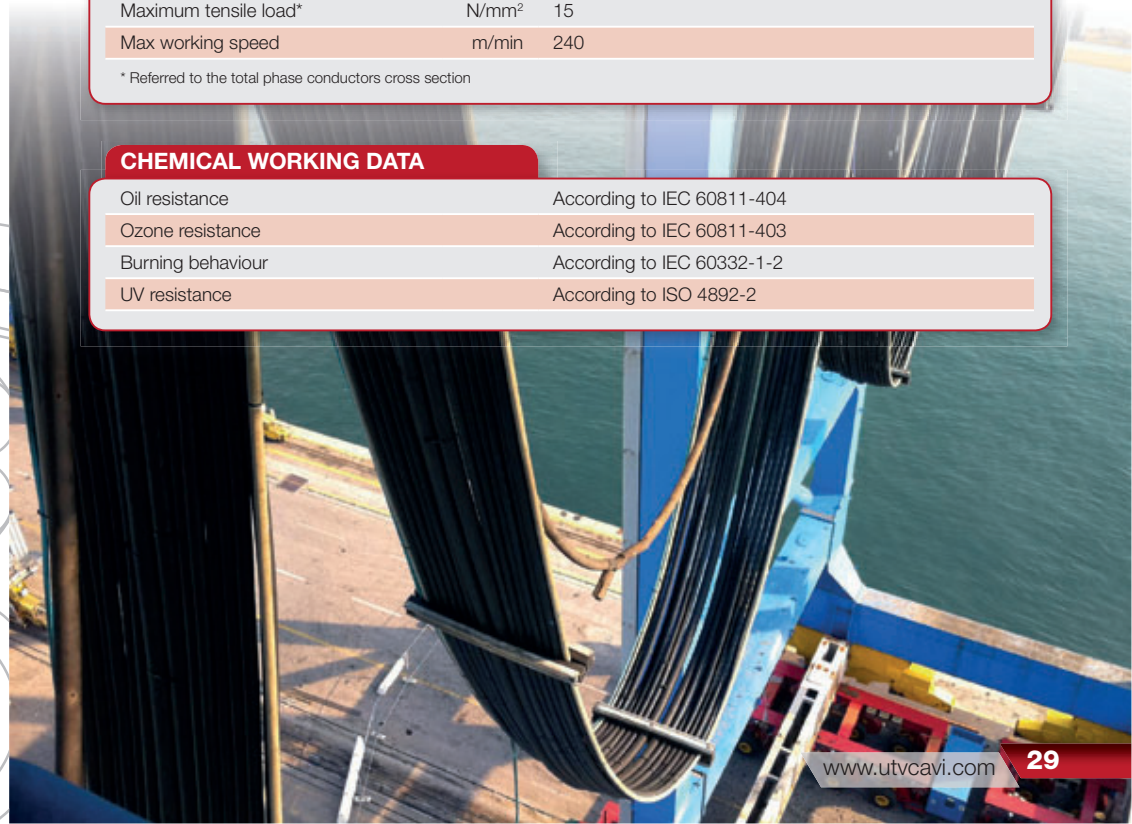
MECHANICAL WORKING DATA

Bending radius	mm	According to VDE 0298 Part 3
Maximum torsional stress	°/m	±90
Maximum tensile load*	N/mm²	15
Max working speed	m/min	240

* Referred to the total phase conductors cross section

CHEMICAL WORKING DATA

Oil resistance	According to IEC 60811-404
Ozone resistance	According to IEC 60811-403
Burning behaviour	According to IEC 60332-1-2
UV resistance	According to ISO 4892-2



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POWER CABLES

VOLTAGE kV	CORES X CROSS SECTION Nr × mm²	CONDUCTOR Ø mm	MIN OVERALL Ø mm	MAX OVERALL Ø mm	APPROX WEIGHT kg/km	MAX TENSILE LOAD N
0,6/1	1×25	6,1	12,0	12,7	350	375
0,6/1	1×35	7,2	13,9	14,6	480	525
0,6/1	1×50	8,9	16,0	16,7	650	750
0,6/1	1×70	10,6	17,7	18,4	870	1050
0,6/1	1×95	12,5	20,3	21,3	1140	1425
0,6/1	1×120	14,2	22,0	23	1390	1800
0,6/1	1×150	15,9	24,1	25,1	1750	2250
0,6/1	1×185	17,7	26,9	27,9	2150	2775
0,6/1	3×35 + 3G16/3	7,2	26,6	27,6	1700	1575
0,6/1	3×50 + 3G25/3	8,9	31,9	33	2480	2250
0,6/1	3×70 + 3G35/3	10,6	35,8	36,9	3360	3150
0,6/1	4×4	2,4	14,1	14,8	360	240
0,6/1	4×6	2,9	15,5	16,2	460	360
0,6/1	4×10	3,8	18,9	19,6	720	600
0,6/1	4×16	4,9	21,8	22,5	1020	960
0,6/1	4×25	6,1	26,7	27,7	1550	1500
0,6/1	4×35	7,2	29,2	30,3	1990	2100
0,6/1	4×50	8,9	35,7	36,8	2920	3000
0,6/1	5×4	2,4	15,3	16	440	300
0,6/1	5×6	2,9	17,3	18	600	450
0,6/1	5×10	3,8	20,6	21,6	910	750
0,6/1	5×16	4,9	23,8	24,8	1300	1200

CONTROL CABLES

VOLTAGE kV	CORES X CROSS SECTION Nr × mm²	CONDUCTOR Ø mm	MIN OVERALL Ø mm	MAX OVERALL Ø mm	APPROX WEIGHT kg/km	MAX TENSILE LOAD N
0,6/1	12G1,5	1,5	19,8	20,8	610	270
0,6/1	18G1,5	1,5	19,9	20,9	650	405
0,6/1	24G1,5	1,5	23,3	24,3	880	540
0,6/1	30G1,5	1,5	26,6	27,6	1160	675
0,6/1	36G1,5	1,5	27,6	28,6	1280	810
0,6/1	12G2,5	1,9	23,3	24,3	860	450
0,6/1	18G2,5	1,9	23,4	24,4	940	675
0,6/1	24G2,5	1,9	28,2	29,2	1330	900
0,6/1	30G2,5	1,9	32,4	33,5	1760	1125
0,6/1	36G2,5	1,9	33,4	34,5	1910	1350

SCREENED CABLES

VOLTAGE kV	CORES X CROSS SECTION Nr × mm²	CONDUCTOR Ø mm	MIN OVERALL Ø mm	MAX OVERALL Ø mm	APPROX WEIGHT kg/km	MAX TENSILE LOAD N
0,6/1	3×(2×0,5)c	0,8	21,1	22,2	590	90
0,6/1	3×(2×1)c	1,5	25,6	26,7	880	90