

**(N)SHTÖU-V** Trailing-Cable**Technical data**

- Special trailing cable adapted to DIN VDE 0250, Part 814
- **Temperature range** flexing -25°C to +80°C
- max. **Temperature at conductor** in operation +90°C in short-circuit +250°C
- **Nominal voltage**  $U_0/U$  0,6/1 kV
- max. **permissible operating voltage** in three-phase and one-phase a.c. system  $U_0/U$  0,7/1,2 kV in direct current system  $U_0/U$  0,9/1,8 kV
- **Test voltage** 4 kV
- **Insulation resistance** min. 10 MOhm x km
- **Minimum bending radius** 7,5x cable  $\emptyset$

**Cable structure**

- Tinned copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of special rubber compound type 3GI3 to DIN VDE 207 part 20
- Core identification to DIN VDE 0293-308 (HD 308 S2)
- Cores stranded (without elongated central core) with max. lay-length of 8x  $\emptyset$  over the stranded layers)
- Depending on dimension/structure with Kevlar fillers
- Inner sheath of special rubber compound type 5GM5 to DIN VDE 0207 part 21
- Torsion protection between inner and outer sheath
- Outer sheath of special rubber compound type 5GM5 to DIN VDE 0207 part 21
- Sheath colour yellow

**Properties**

- Permitted running speed up 180 m/min
- Highly resistant to acids, fats, gasoline, solvents and chemicals
- During installation and operation, the tensile stress must not exceed 30 N/mm<sup>2</sup>

**Tests**

- Behaviour in fire to DIN VDE 0482-332-1-2 DIN EN 60332-2-1, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- Oil resistant to DIN VDE 0473-811-404, DIN EN 60811-404

**Note**

- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

**Application**

For vertical drum operation under extreme mechanical stress and on moving cable carriers. Used as a rugged feeder to construction machines, conveyor, transport and crane systems in dry, damp, wet environments and outdoors. For applications that go beyond standard solutions we recommend you to our specially developed questionnaire for reeling cables. Please note installation instructions.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

**Power supply Cable**

Part no.	No.cores x cross-sec. mm <sup>2</sup>	Outer $\emptyset$ min. - max. mm	Cop. weight kg / km	Weight app. kg / km	Tensile strain max. N	AWG-No.
31040	3 G 1,5	10,9 - 13,6	45,0	191,0	130	16
31041	3 G 2,5	12,3 - 14,8	74,0	240,0	220	14
31042	3 G 4	14,9 - 17,6	115,0	362,0	360	12
31043	3 G 6	16,2 - 18,9	173,0	450,0	540	10
31044	3 G 10	19,6 - 22,6	288,0	682,0	900	8
31045	3 G 16	21,8 - 24,9	461,0	890,0	1440	6
31046	3 G 25	27,5 - 30,8	720,0	1200,0	2250	4
31047	3 x 50 + 3 G 25/3	36,9 - 40,6	1685,0	2810,0	4500	1
31048	3 x 70 + 3 G 35/3	40,4 - 44,4	2355,0	3760,0	6300	2/0
31049	3 x 95 + 3 G 50/3	46,6 - 50,8	3215,0	4700,0	8550	3/0
31050	3 x 120 + 3 G 70/3	50,8 - 55,2	4130,0	5950,0	10800	4/0
31051	3 x 150 + 3 G 70/3	55,4 - 60,0	4990,0	7050,0	13500	300 kcmil
31052	3 x 185 + 3 G 95/3	60,8 - 65,7	6250,0	8800,0	16650	350 kcmil
31053	3 x 240 + 3 G 120/3	68,8 - 74,0	8065,0	11700,0	21600	500 kcmil
31054	4 G 1,5	11,8 - 14,5	58,0	220,0	180	16
31055	4 G 2,5	14,4 - 17,1	99,0	330,0	300	14
31056	4 G 4	16,2 - 18,8	158,0	440,0	480	12
31057	4 G 6	17,4 - 20,2	241,0	530,0	720	10
31058	4 G 10	24,4 - 21,3	404,0	835,0	1200	8
31059	4 G 16	24,7 - 27,9	642,0	1175,0	1920	6
31060	4 G 25	31,4 - 34,9	1005,0	1850,0	3000	4
31061	4 G 35	37,5 - 33,9	1344,0	2250,0	4200	2
31062	4 G 50	40,3 - 44,2	2010,0	3210,0	6000	1
31063	4 G 70	44,5 - 48,6	2687,0	4210,0	8400	2/0
31064	4 G 95	51,1 - 55,5	3646,0	5550,0	11400	3/0
31065	4 G 120	57,4 - 62,0	4605,0	7010,0	14400	4/0
31066	4 G 150	62,6 - 67,6	5765,0	8450,0	18000	300 kcmil
31067	4 G 185	68,1 - 73,2	7110,0	10000,0	22200	350 kcmil
31068	5 G 1,5	12,8 - 15,5	73,0	258,0	220	16
31069	5 G 2,5	15,5 - 18,2	124,0	389,0	370	14
31070	5 G 4	17,4 - 20,2	220,0	511,0	600	12
31071	5 G 6	19,6 - 22,7	317,0	688,0	900	10
31072	5 G 10	23,2 - 26,3	508,0	1002,0	1500	8
31073	5 G 16	26,7 - 30,2	768,0	1395,0	2400	6
31074	5 G 25	34,1 - 37,7	1200,0	2205,0	3750	4
31075	5 G 35	38,3 - 42,2	1680,0	2960,0	5250	2
31076	5 G 50	43,8 - 47,8	2400,0	3950,0	7500	1
31077	5 G 70	50,2 - 54,6	3360,0	5455,0	10500	2/0

Dimensions and specifications may be changed without prior notice. (RG01)

**Control Cable (Kevlar fillers)**

Part no.	No.cores x cross-sec. mm <sup>2</sup>	Outer $\emptyset$ min. - max. mm	Cop. weight kg / km	Weight app. kg / km	Tensile strain max. N	AWG-No.
31078	49 G 1	31,0 - 34,5	470,0	1420,0	3450	18
31079	7 G 1,5	14,6 - 16,9	115,0	320,0	2318	16
31080	12 G 1,5	20,6 - 23,4	196,0	620,0	2540	16
31081	18 G 1,5	20,3 - 22,9	271,0	650,0	2810	16
31082	24 G 1,5	24,2 - 27,4	390,0	930,0	3080	16
31083	30 G 1,5	27,7 - 31,1	432,0	1190,0	3350	16
31084	36 G 1,5	27,9 - 31,3	518,0	1240,0	3620	16
31085	44 G 1,5	31,2 - 34,8	634,0	1530,0	3980	16
31086	48 G 1,5	31,8 - 35,4	691,0	1610,0	4160	16
31087	56 G 1,5	35,9 - 39,7	807,0	2020,0	4520	16
31088	7 G 2,5	17,5 - 19,8	168,0	480,0	2520	14
31089	12 G 2,5	23,8 - 26,7	308,0	915,0	2900	14
31090	18 G 2,5	23,4 - 26,2	451,0	945,0	3350	14
31091	24 G 2,5	28,2 - 31,1	615,0	1330,0	3800	14
31092	30 G 2,5	31,1 - 34,4	770,0	1615,0	4250	14
31093	36 G 2,5	31,3 - 34,7	866,0	1710,0	4680	14
31094	44 G 2,5	36,2 - 40,2	1057,0	2240,0	5250	14
31095	48 G 2,5	37,2 - 41,0	1153,0	2410,0	5550	14
31096	56 G 2,5	41,6 - 46,0	1344,0	2930,0	6150	14