

# (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<sub>0</sub>/U 0,6/1 kV
- **Max. permissible operating voltage** - in three-phase and one-phase a.c. systems U<sub>0</sub>/U 0,7/1,2 kV - in d.c. systems U<sub>0</sub>/U 0,9/1,8 kV
- **Test voltage** 4 kV
- **Minimum bending radius** 7,5x cable Ø

### 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
- GN-YE conductor
- Cores stranded
- 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

- Designed and developed for vertical reeling applications.
- **Resistant against** acids, fats, gasoline, solvents and chemicals.

### Tests

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

### Note

- Permitted running speed up 180 m/min
- 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 which go beyond standard solutions we recommend that you fill out our especially developed questionnaire for reeling cables. Please read the installation instructions, see chapter "Technical Informations".

CE = Product conforms with Low-Voltage Directive 2014/35/EU.

### Power supply Cable

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø min. - max. mm	Cop. weight app. 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 90/3	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

### Control Cable (Kevlar fillers)

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø min. - max. mm	Cop. weight app. 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

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