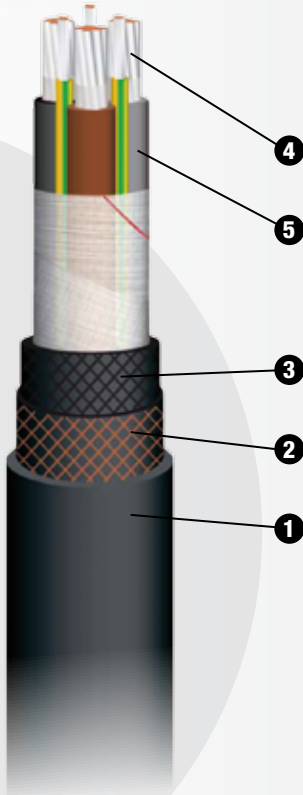


# NSHTÖU-J

FLEXIBLE CABLES FOR REELING APPLICATIONS - ALL OPERATIONS - 0.6 / 1 KV



All the very stringent characteristics of the insulating cover and the sheath make the cable suitable for use with reeling systems such as power supply of moving machines. In addition to its excellent mechanical characteristics, the **polychloroprene** sheath has a good resistance to wear combined with a high flexibility over a large range of temperatures.

## Design

- ❶ Outer sheath made of black polychloroprene rubber compound
- ❷ Synthetic anti twist braid
- ❸ Inner sheath made of polychloroprene rubber compound
- ❹ Conductors made of tinned copper
- ❺ Insulation made of HEPR compound (colours according to DIN VDE 0293 part 308)



*Short lay-length assembled conductors wrapped in a semi conductive strip.*

## Standards

- VDE 0250 part 814
- VDE 0298 part 4 (core temperature in service)
- Flame resistance: class C3 (not tested)

## Conditions of use

- Suitable for all types of spool in adequacy with the minimum bending radius.

## Voltage

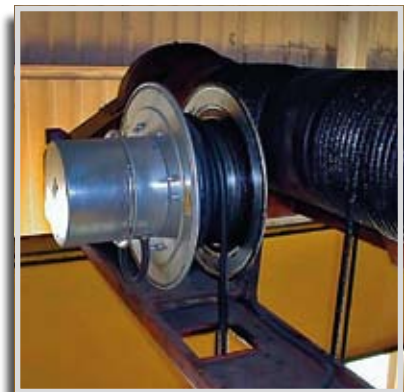
- 0.6 / 1 kV - Low Voltage

## Linear reeling speed

- 180 m/min max.

## Ambient temperature

- From -30 up to +90°C (see table of de-rating factors next page).



## Cables NSHTÖU-J Technical Data

Number of Cores × Nominal C.S.A.  mm <sup>2</sup>	Outer Diameter		Unsheathed Cable Diameter  mm	Linear Weight  kg/m	Max Tensile Load  daN	Current Carrying Capacity  A	Voltage Drop  V/A.km	Dynamic Short Circuit Current  kA	Min Bending Radius  mm
	Min mm	Max mm							
4 G 4	16.0	18.1	14.7	0.460	32	41	8.80	0.51	120
4 G 6	18.4	20.5	16.3	0.615	48	53	5.93	0.77	129
4 G 10	21.9	24.0	20.1	0.920	80	74	3.45	1.30	153
4 G 16	25.5	27.6	23.0	1.310	128	99	2.24	2.00	180
4 G 25	29.6	32.8	27.1	1.860	200	131	1.46	3.20	210
4 G 35	33.2	36.4	30.5	2.490	280	162	1.06	4.50	234
4 G 50	38.4	41.6	35.6	3.300	400	202	0.77	6.40	267
4 G 70	43.6	46.8	40.8	4.420	560	250	0.57	9.00	294
4 G 95	48.5	53.0	46.2	5.610	760	301	0.45	12.20	339
4 G 120	55.5	60.0	51.3	7.360	960	352	0.36	15.40	380
5 G 4	18.0	20.1	16.0	0.575	40	41	9.00	0.51	131
5 G 6	19.8	21.9	18.0	0.725	60	53	6.00	0.77	143
5 G 10	24.5	26.6	22.5	1.140	100	74	3.50	1.30	173
5 G 16	27.6	29.7	25.5	1.550	160	99	2.30	2.00	194
5 G 25	32.2	35.4	30.0	2.170	250	131	1.50	3.20	231
3×50 + 3G25/3	34.2	37.4	32.5	2.730	300	202	0.77	6.40	244
3×70 + 3G35/3	39.6	42.8	37.8	3.740	420	250	0.55	9.0	280
3×95 + 3G50/3	43.8	47.0	41.8	4.690	570	301	0.45	12.20	314
3×120 + 3G70/3	49.5	54.0	48.5	6.220	720	352	0.36	15.40	357
3×150 + 3G70/3	55.5	60.0	50.2	7.480	900	404	0.30	19.20	369
3×185 + 3G95/3	59.5	64.0	55.3	9.020	1 110	461	0.26	23.70	403
3×240 + 3G120/3	67.5	72.0	64.0	11.760	1 440	540	0.22	30.70	457

### Recommendations

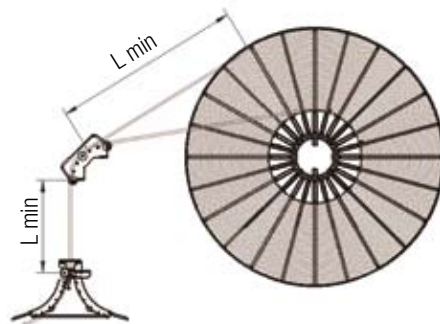
- Amperage de-rating factor for reeling applications: 0.85
- De-rating factors in relation to the ambient temperature above 30°C:

30°C up to 40°C	0.90
40°C up to 50°C	0.80
50°C up to 55°C	0.74
55°C up to 60°C	0.65
- Recommended voltage drop limits:

Usual	5%
Lighting	3%
Frequency inverter	2.5%

### Installation

- Minimum distance between two guiding devices:  $L_{min} = 20 \times \text{cable O.D.}$



- Deflection angle (if  $\emptyset r < \text{bending radius}$ ) = 15° max for laying on rollers

