



APPLICATION

Flexible cable designed for power and signalling mobile connections, under severe mechanical stresses (tensile strength and torsion), for heavy duty conditions, abrasion and crushing. The cable is typically used in cable winding reels for harbour cranes, container cranes, conveyors, handling machines and mining and tunnelling equipment. The halogen free polyurethane sheath grants more lightness by retaining the mechanical properties and abrasion resistance.

CHARACTERISTICS

Voltage Rating U_0/U

0.6/1kV

Test Voltage

4kV

Maximum Torsional Stress: $\pm 25^\circ/m$

Maximum Tensile Load: 30N/mm²

Maximum Working Speed: 180m/min

Temperature Rating

Flexing: -40°C to 90°C

Flexed: -50°C to 90°C

Minimum Bending Radius

Fixed: 4 x overall diameter

Flexing: 5 x overall diameter

CONSTRUCTION

Conductor

Class 5 Flexible Tinned Copper

Insulation

Rubber compound

Inner Sheath

Halogen free PUR (Polyurethane)

Antitwisting Element

Polyester Braid

Outer Sheath

Halogen free PUR (Polyurethane)

Core Identification

3 Core: Green/Yellow Blue Brown

4 Core: Green/Yellow Brown Black Grey

5 Core: Green/Yellow Blue Brown Black Grey

Note:

(N)SHTÖU-O is available without a Green/Yellow core

Outer Sheath Colour

Black

STANDARDS

Based on VDE 0240 Part 814, VDE 0295, IEC 60228, VDE 0250, VDE 0293, VDE 0207, VDE 0298, IEC 60811-404, IEC 60811-403, ISO 4892-2,
Flame Retardant according to IEC/EN 60332-1-2
Special Test: Reeling test

DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER OF CONDUCTOR mm	NOMINAL OVERALL DIAMETER mm	MAXIMUM TENSILE LOAD N	NOMINAL WEIGHT kg/km
3	25+16	6.9	27.3	2250	1390
3	35+16	7.8	29.8	3150	1740
3	50+25	9.3	35	4500	2470
3	70+35	11.1	38.9	6300	3290
3	95+50	12.7	43.2	8550	4090
3	120+70	14.5	47.1	10800	5220
3	150+70	16.7	53.7	13500	6460
3	185+95	17.6	57.3	16650	7720
4G	1.5	1.5	11.7	2180	170
4G	2.5	1.9	19.9	2300	220
4G	4	2.4	16.7	480	380
4G	6	2.9	18.2	720	490
4G	10	3.8	21.5	1200	720
4G	16	4.8	24	1920	990
4G	25	6.9	30.7	3000	1610
4G	35	7.8	33.7	4200	2090
4G	50	9.3	38.2	6000	2830
4G	70	11.1	43.6	8400	3720
4G	95	12.7	47.5	11400	4770
4G	120	14.5	52.7	14400	6040
4G	150	16.7	59	18000	7520
5G	1.5	1.5	12.3	225	190
5G	2.5	1.9	13.7	2375	260
5G	4	2.4	18	600	460
5G	6	2.9	19.6	900	590
5G	10	3.8	23.4	1500	870
5G	16	4.8	36	2400	1200
5G	25	6.9	33.4	3750	1970
5G	35	7.8	36.5	5250	2560
7G	1.5	1.5	14.1	2315	260
7G	2.5	1.9	15.8	2525	360
12G	1.5	1.5	17.9	2540	450
12G	2.5	1.9	20.4	2900	590

18G	1.5	1.5	18.3	2810	480
18G	2.5	1.9	20.8	3350	660
24G	1.5	1.5	20.9	3080	630
24G	2.5	1.9	24	3800	910
30G	1.5	1.5	22.9	3350	770
30G	2.5	1.9	26,4	4250	1120
36G	1.5	1.5	23.3	3620	800
36G	2.5	1.9	26.8	4700	1170
42G	1.5	1.5	24.8	3890	910
42G	2.5	1.9	29.3	5150	1390