



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.

CHARACTERISTICS

Voltage Rating U₀/U

0.6/1kV

Test Voltage

4kV

Maximum Torsional Stress: ± 25°/m

Maximum Working Speed: 180m/min

Temperature Rating

Flexing: -25°C to + 90°C

Fixed: -40°C to + 90°C

Minimum Bending Radius

Fixed: 4 x overall diameter

Flexed: 5 x overall diameter

CONSTRUCTION

Conductor

Class 5 Flexible Tinned Copper

Insulation

Rubber compound

Inner Sheath

Rubber compound

Anti-Twisting Element

Polyester Braid

Outer Sheath

Rubber compound

Core Identification

3 Core: Green/Yellow Blue Brown

4 Core: Green/Yellow Brown Black Grey

5 Core: Green/Yellow Blue Brown Black Grey

7 Core and above: Black with White numerals + Green/Yellow

Note:

(N)SHTÖU-O & NSHTÖU-O are available without Green/Yellow core

(N)SHTÖU-O/J 7 core and above available with a Central Filler

Outer Sheath Colour

Black or Yellow

STANDARDS

VDE 0250 Part 814, VDE 0295, IEC 60228, VDE 0293,
HD 308S2, VDE 0207 Part 20-21, IEC 60811,
IEC 60332-1-2, ISO 4892-2,
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
3G	1.5	1.5	14.3	135	270
3G	2.5	1.9	15.8	225	330
3G	4	2.4	17.5	360	420
3G	6	2.9	18.8	540	520
3G	10	3.8	22.4	900	750
3G	16	4.8	24.5	1440	970
3G	25	6.9	30.1	2250	1450
3G	35	7.8	32.7	3150	1890
3G	50	9.3	37.8	4500	2600
3G	70	11.1	41.9	6300	3340
3G	95	12.7	47.8	8550	4380
3G	120	14.5	51.4	10800	5330
3G	150	16.7	56.9	13500	6700
3G	185	17.6	64.5	16650	8100
3G	240	20.6	69.0	21600	10850
3 + 3G	35 + 16	7.8	32.6	3150	2100
3 + 3G	50 + 25	9.3	37.8	4500	2800
3 + 3G	70 + 35	11.1	41.9	6300	3790
3 + 3G	95 + 50	12.7	47.8	8550	4710
3 + 3G	120 + 70	14.5	51.4	10800	5840
3 + 3G	150 + 70	16.7	56.9	13500	7080
3 + 3G	185 + 95	17.6	64.5	16650	8940
3 + 3G	240+120	20.6	69.0	21600	11320
4G	1.5	1.5	15.1	180	300
4G	2.5	1.9	17.2	300	400
4G	4	2.4	18.7	480	500
4G	6	2.9	20.1	720	620
4G	10	3.8	24.0	1200	890
4G	16	4.8	26.0	1920	1170
4G	25	6.9	33.2	3000	1900
4G	35	7.8	35.4	4200	2340
4G	50	9.3	41.5	6000	3250

4G	70	11.1	45.7	8400	4180
4G	95	12.7	52.1	11400	5500
4G	120	14.5	58.0	14400	6950
4G	150	16.7	64.6	18000	8570
4G	185	17.6	69.4	22200	10160
5G	1.5	1.5	16.0	225	350
5G	2.5	1.9	18.3	375	460
5G	4	2.4	19.9	600	580
5G	6	2.9	22.3	900	750
5G	10	3.8	25.8	1500	1060
5G	16	4.8	28.0	2400	1410
5G	25	6.9	36.0	3750	2290
5G	35	7.8	39.8	5250	2940
5G	50	9.3	45.0	7500	3940
5G	70	11.1	51.5	10500	5300