

(N)SHTÖU - V

LOW VOLTAGE REELING CABLE



CABLE STRUCTURE

CONDUCTOR: Electrolytic annealed, class 5 stranded tinned copper wires (plain conductor on request)

SEPARATOR: A suitable tape may be applied over the conductor

INSULATION: Special HEPR based elastomer compound providing very high stability

LAY UP & SUPPORT ELEMENT: Central aramid (kevlar) strength member, cores laid up in concentric layers with shorth length of layers with shorth length of lay

CORE IDENTIFICATION: : Acc. to VDE 0293-308

INNER SHEATH: Special type of elastomer compound better than GM1b

SHEATH REINFORCEMENT: Antitortion textile braided embeded sheath

OUTER SHEATH: Special rubber based compound heavy duty compound. Oil and chemical resistant, 5GM3/5GM5 abrasion and notch resistant

COLOR: Black or Yellow

PRODUCTION AND TEST STANDARDS

CONSTRUCTION

: Based on DIN VDE 0250-814

GENERAL REQUIREMENTS

: DIN VDE 0250-1

GUIDE TO USE

: DIN VDE 0298-3

ELECTRICAL TESTS

: DIN VDE 0472-501, 502, 503, 508

NON-ELECTRICAL TESTS

: DIN VDE 0472-401, 402, 602, 303, 615

UNDER FIRE CONDITIONS TESTS

: DIN VDE 0472-803, 804

FLAME RETARDANT

: VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1

OIL RESISTANT

: HD/EN/IEC 60811-2-1, DIN VDE 0473-811-2-1

OPERATING CHARACTERISTICS

RATED VOLTAGE

: 0,6 / 1 kV

MAX. OPERATING AC VOLTAGE

: 0,7 / 1,2 kV

MAX. OPERATING DC VOLTAGE

: 0,9 / 1,8 kV

AC TEST VOLTAGE

: 3,5 kV

CONDUCTOR OPERATING TEMPERATURE

: Max. 90°C

CONDUCTOR SHORT-CIRCUIT TEMPERATURE

: Max. 250°C

WORKING TEMPERATURE

Fixed

: -40°C ... +80°C

Mobile

: -25°C ... +80°C

MIN BENDING RADIUS

: VDE 0298-3 Tab. 3

CURRENT CARRYING CAPACITIES

: VDE 0298-4

OZONE RESISTANT

COLD RESISTANT

TEAR RESISTANT

MECHANICAL STRESSES RESISTANCE

EX-PROOF

UV RESISTANT

Travel Speed:

In reeling applications

: up to 180 m / min horizontal

: up to 120 m / min vertical

Max. tensile load of cable

: 30 N / mm²

APPLICATION: This -V type of cable has been specially developed and designed in order to provide a specific solution for vertical reeling applications As reeling cable for winding operation with tensile stress and/or torsional stress and for connection and control cable in lifting devices, hoisting plants and transporting machines for heavy mechanical load, and as drum and drag cable in dry, damp or wet rooms and in wet industrial conditions..

N. of Cores and Nominal Section (n / mm ²)	Overall Diameter Min. - Max. (mm)	Net Weight Approx kg / km
7 x 1,5	16,9 - 19,2	430
12 x 1,5	23 - 25,4	810
18 x 1,5	23,1 - 25,6	870
24 x 1,5	26,5 - 29,2	1100
30 x 1,5	29,6 - 33,1	1420
36 x 1,5	29,8 - 34,0	1460
6 x 2,5	18,6 - 21,3	590
12 x 2,5	25,5 - 28,8	1050
18 x 2,5	25,7 - 29,2	1130
24 x 2,5	29,8 - 33,2	1560
30 x 2,5	34,0 - 37,2	2000
36 x 2,5	34,2 - 37,4	2070
7 x 4	21,4 - 23,5	820
12 x 4	29,8 - 33,0	1550

N. of Cores and Nominal Section (n / mm ²)	Overall Diameter Min. - Max. (mm)	Net Weight Approx kg / km
18 x 4	30,0 - 33,2	1680
20 x 6	39,0 - 42,5	2800
4 x 10	21,7 - 27,8	1020
4 x 16	25,4 - 32,3	1380
4 x 25	29,6 - 39,8	1980
4 x 35	32,6 - 43,6	2620
4 x 50	40,8 - 51,0	3610
4 x 70	46,5 - 58,6	5300
4 x 95	52,7 - 66,2	7010
42 x 2,5	35,0 - 38,0	2160
44 x 2,5	36,1 - 39,0	2300
45 x 2,5	39,0 - 41,0	2400
56 x 2,5	42,1 - 45,2	3040
49 x 1	27,0 - 30,0	1300