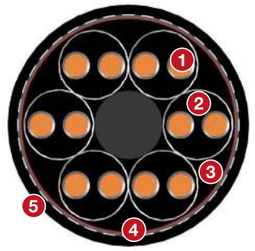
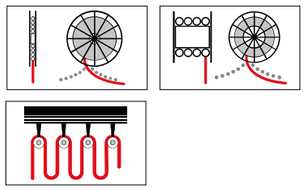
UTVFLEX® - S

(N)SHTÖU-JZ/-OZ

Flexible power cables for use on connecting movable parts of machine tools and any material handling equipment (i.e. Stacker/reclaimer, ship to shore crane, container crane festoon, grabtype ship unloading, gantry festoons, timber crane festoons, etc.).
Suitable for any energy supply on cable reels and festoon systems associated to high mechanical stresses, frequent bending/torsional operation and fast movement with strong acceleration.



APPLICATION



1 PHASE CONDUCTORS
MATERIAL: tinned copper
CONSTRUCTION: flexible cl.5 IEC 60228

2 INSULATION
MATERIAL: EPR compound better than 3GI3

CORES IDENTIFICATION
Black with printed numbers with or without 1 green/yellow
Each cores consecutively numbered

SHIELD (ON SINGLE CORE OR PAIR)
Tinned copper braid screen
At least 70 % on cores
At least 80 % on pairs

PAIRS
Two cores layed up
Textile filler in the interstices to mantein good geometrical characteristics

LAYNG-UP
Short lay length for better flexibility
≤7 times the laying-up cores diameter (in maximum 3 layer for multicores cables)

SEPARATION
Tape(s)

3 INNER SHEATH
MATERIAL: Polychloroprene rubber based compound
Better than GM1b

4 ANTITWISTING ELEMENT
MATERIAL: Synthetic yarns
Firmly bonded between inner and outer sheath

5 OUTER SHEATH
MATERIAL: Black polychloroprene rubber compound
UV resistant oil and chemical resistant better then 5GM2

ELECTRICAL WORKING DATA

Nominal rated voltage U_0 / U	kV	0,6/1
Test voltage	kV	4
Max AC voltage	kV	0,7/1,2
Current rating	A	According to VDE 0298 Part 4

THERMAL WORKING DATA

Maximum short circuit temperature	°C	250
Maximum working temp. on the conductor	°C	90
Minimum ambient temperature*	°C	Mobile condition: –25 Static condition: –40

* For ambient temperature up to –40 °C in mobile application the cable UTVFLEX®-K is available

MECHANICAL WORKING DATA

Bending radius	mm	According to VDE 0298 Part 3
Maximum tensile load*	N/mm²	15
Max working speed	m/min	60
Special test		Reeling test

* Referred to the total phase conductors cross section

CHEMICAL WORKING DATA

Oil resistance	According to IEC 60811-404
Weather resistance	Unrestricted use outdoor and indoor, UV resistant, moisture resistant

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VOLTAGE kV	CORES X CROSS SECTION Nr × mm²	MIN OVERALL Ø mm	MAX OVERALL Ø mm	APPROX WEIGHT kg/km	MAX TENSILE LOAD N
0,6/1	3×(2×1.0)C	20,9	23,0	670	90
0,6/1	3×(2×1.5)C	21,4	23,5	740	135
0,6/1	6×(2×1.0)C	26,9	29,0	1080	180
0,6/1	6×(2×1.5)C	28,3	30,3	1210	270
0,6/1	6×(2×2.5)C	30,6	33,6	1570	450
0,6/1	19×2,5+5×1 (c)	30,6	33,8	1580	713
0,6/1	19×2,5+5×1,5 (c)	30,6	33,8	1630	713
0,6/1	25×2,5+5×1 (c)	32,6	35,8	1820	938
0,6/1	25×2,5+5×1,5 (c)	32,6	35,8	1850	938
0,6/1	26×2,5+10×1 (c)	36,2	39,4	2150	975

The diameter and weight shown is approximate, they may have some tolerance (to be confirmed when ordering).
Other cross sections and colors available upon request.