

CORDAFLEX (SMK) -V (N)SHTOEU

Vertical drum reeling cable

Application

Cordaflex (SMK) -V is a flexible reeling cable for very high stresses and vertical reeling operation, it is particularly suitable for spreader applications.

Construction

Conductor :	Electrolytic copper tinned, very finely stranded class FS
Insulation:	Special compound to provide high stability and excellent gliding ability.
Core colour :	Black cores with white numbers, green / yellow earth core.
Core arrangement :	Laid up in a maximum of 3 layers.
Shield for individually shielded cores & twisted & shielded pairs :	Braid screen from tinned copper wires, transfer impedance optimized at 30MHz.
Surface coverage :	Minimum 60% for shielded cores. Minimum 80% for twisted pairs.
Support element	Central Aramide support element to increase loading the capabilities
Sheath system :	- PROTOFIRM inner sheath, high grade special compound based on PCP, colour - yellow. - Anti-torsion braid, reinforced braid made of polyester threads in a vulcanised bond between the sheath resulting in a very high strength sheath. - PROTOFIRM special outer sheath, high strength special compound with high performance characteristics to resist abrasion and also very high resistance to tearing. Based on PCP, colour - yellow.
Marking :	CORDAFLEX (SMK)-V (N)SHTOEU-J/O (no of cores) x (cross section)

Working Environment

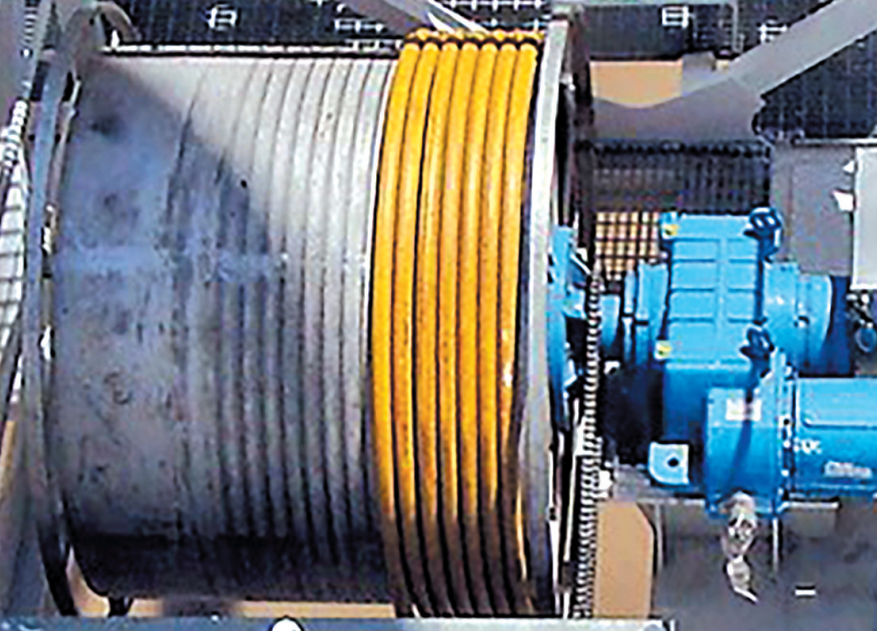
Maximum operating temperature in fixed application :	-50 deg C / +80 deg C
in mobile application :	-35 deg C / +80 deg C
Maximum temp. at conductor :	+90 deg C
Short circuit temp. at conductor :	+200 deg C

Electrical Properties

Nominal voltage :	600 / 1000 V
Max op. voltage AC systems :	700 / 1200 V
Max op. voltage DC systems :	900 / 1800 V
AC test voltage :	3500 V .5 min
Current carrying capacity :	In accordance with DIN VDE 0298 part 4
Bus compatability :	ASI-Bus, Proibus, CAN-Bus, Industrial ethernet, alternatively: fibre optics for transmitting all Bus protocols.

Additional Information

Minimum bending radius :	In accordance with VDE 0298 part 3
Tensile strength :	+ / - 50 deg/m
Operating speed :	240 m/min (please enquire for higher operating speeds)
Oil resistance :	According to VDE 0473 part 811-2-1 para. 10
Weather resistance :	Suitable for indoor & outdoor use, ozone, UV & moisture resistant



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Part No	Cross Section mm ²	Main Conductor diameter (mm)	Overall Diameter of Cable (min) mm	Overall Diameter of Cable (max) mm	Weight Kg / Km	Max Tensile Force (N)
CORDAFLEX (SMK) -V (N)SHTOEU control cables						
08043 0100 49 (SMK)-V	49 x 1.0	1.30	26.6	29.6	1260	3200
08043 0250 24 (SMK)-V	24 x 2.5	2.00	26.2	29.2	1340	3600
08043 0250 30 (SMK)-V	30 x 2.5	2.00	29.4	32.4	1680	4100
08043 0250 44 (SMK)-V	44 x 2.5	2.00	34.1	37.1	2280	5100
08043 0250 56 (SMK)-V	44 x 2.5	2.00	40.1	43.1	3030	6000

CORDAFLEX (SMK) -V (N)SHTOEU composite control cables

08043 0250 42 + 3LWL (SMK)-V	42 x 2.5	2.00	38.7	41.7	2940	4950
08043 0250 45+(4x0.5)C (SMK)-V	45 x 2.5	2.00	42.9	45.9	2830	5175

CORDAFLEX (SMK) -V (N)SHTOEU special design with integrated fibre optics available on request