Reelkab RV (N)SHTOEU

CABLE STRUCTURE

Conductor	Electrolytic annealed, class 5 stranded bare copper wires
Insulation	3GI3 type cross-linked elastomeric compound (VDE 0207 - Part 20)
Core Arrangement	Three-core design, with split earth conductor in the interstices, laid up with a left-hand lay. Special tape is applied over the core bundle.
Inner Sheath	5GM3 type special rubber compound (VDE 0207 - Part 21)
Reinforcement	Antitorsion textile braided embeded sheath
Outer Sheath	5GM5 type special rubber compound (VDE 0207 - Part 21)

STANDARDS & MAIN CHARACTERISTICS

Construction	Based on VDE 0250-814
General Requirements	VDE 0250-1
Guide to Use	VDE 0298-3, VDE 0298-4
Electrical Tests	VDE 0472-501, 502, 503, 508
Non-electrical Tests	VDE 0472-401, 402, 602, 303, 615
Conductor Resistance	VDE 0295, IEC 60228
Flame Retardant	IEC 60332-1-2, VDE 0482-332-1-2
Oil Resistant	VDE 0473-811-404, EN 60811-404

OPERATING CHARACTERISTICS

Rated Voltage	600/1000 V (U_0/U)
AC Test Voltage	3,5 kV
Operating Temperature	-40˚C to +90˚C
Max. Conductor Operating Temp.	90˚C
Conductor Short-Circuit	250˚C (Max. 5 sec)
Min. Installation Temp.	-15˚C
Min. Bending Radius	VDE 0298-3
Current Carrying Capacitiy	VDE 0298-4
Max. Tensile Load on the Conductor	15 N/mm²
Torsional Stress	± 50 ˚/m
Travel Speed	Permitted running speed up 240m/min

VISUAL AND MARKING

Color	Black (other colors on request)

APPLICATION

These flexible low-voltage reeling cables are designed for power supply applications under high mechanical stresses. They are particularly suitable for use in cable reels, hoists, lifts, portable engines, traction motors, agricultural equipment, and monospiral reeling applications, where frequent winding and unwinding occur. Specifically engineered for operations involving simultaneous tensile strain, torsional stress, and forced cable guidance, they are ideal for demanding applications such as Electrified Rubber Tyred Gantry (ERTG) cranes. These cables can be used in dry and wet conditions, outdoors, and in oily areas. Additionally, the textile braiding is embedded between the inner and outer sheath, enhancing durability and performance.

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CAN*	Cross-section (mm²)	Outer Sheath Diameter			Approx.Cable Weight (kg/km)	Min. Bending Radius Free movement (mm)	Current Carrying Capacity (*) (A)	Max. Electrical Resistance at 20˚C (ohm/km)
		Min. (mm)	Nom. (mm)	Max. (mm)				
4131.1	3x35 + 3x16/3	29,50	30,6	31,50	2.020	158	165	0,554
4131.2	3x50 + 3x25/3	35,00	36,4	37,00	2.878	185	205	0,386
4131.3	3x70 + 3x35/3	39,50	41,1	43,00	3.833	215	250	0,272
4131.4	3x95 + 3x50/3	43,50	45,3	46,00	4.838	230	300	0,206
4131.5	3x120 + 3x70/3	49,50	51,3	52,00	6.205	260	355	0,161
4131.6	3x150 + 3x70/3	53,00	54,9	56,00	7.283	280	405	0,129
4131.7	3x185 + 3x95/3	58,00	59,9	61,00	8.862	305	460	0,106
4131.8	3x240 + 3x120/3	66,50	68,7	70,00	11.577	350	540	0,0801
4131.9	3x300 + 3x150/3	72,00	74,7	76,00	14.152	380	620	0,0641
4131.10	3x400 + 3x240/3	83,50	86,2	88,00	18.393	440	720	0,0486

** Conductor temperature at 90 ˚C, Ambient air temperature at 30 ˚C

* CAN : Cable Article Number