

Reelkab MSS (N)TSCGEWOEU



CABLE STRUCTURE

Conductor	Phase and earth conductor made of tinned annealed stranded copper wires Class 5 in accordance with VDE 0295 and IEC 60228
Conductor Screen	Extruded inner semiconductive rubber compound and semiconductive tape
Insulation	High grade special compound based on EPR quality at least 3GI3, in accordance with VDE 0207 - Part 20
Insulation Screen	Extruded outer semiconductive rubber compound easily stripped and semiconductive tape
Core Arrangement	A three-core design, where the earth conductor is divided into three parts and placed in the spaces between the cores, with the cores layed up around a semi conductive filler incorporating an aramid rope at the center for added tensile strength and structural stability. Left-hand stranded.
Inner Sheath	Special rubber compound, quality at least 5GM3, in accordance with VDE 0207 - Part 21
Reinforcement	A braid of polyester threads, reinforced and bonded with vulcanization between the sheaths, delivers high durability to the sheath system
Outer Sheath	Special rubber compound quality at least 5GM5, in accordance with VDE 0207 - Part 21

STANDARDS & MAIN CHARACTERISTICS

Standard	Based on VDE 0250-813	Flame Retardant	IEC 60332-1-2
General Requirements	VDE 0250-1	Oil Resistant	IEC 60811-404
Guide to Use	VDE 0298-3, VDE 0298-4	UV Resistance	BS EN 50289-4-17 / Method B
Electrical Tests	VDE 0472-501, 512, 508, 502, 503	Water Resistance	AD8
Non-electrical Tests	VDE 0472-401, 402, 602,615, 613		
Conductor Resistance	VDE 0295, IEC 60228		

OPERATING CHARACTERISTICS

Rated Voltage	3,6/6 kV / 6/10 kV / 8,7/15 kV / 12/20 kV	Min. Bending Radius	VDE 0298-3
Test Voltage	11 kV / 17 kV / 24 kV / 29 kV	Max. Tensile Load on the Conductor	20 N/mm ²
Max. Conductor Temperature	90°C	Max. Tensile Load on the Conductor	Up to 25 N/mm ² (during acceleration)
Short Circuit Temperature	250°C (Max. 5 s)	Torsional Stress	± 50 °/m
Min. Ambient Temperature	-40°C	Min. Distance with S-Type Directional Changes	20 x D
Max. Current Carrying Capacity	VDE 0298-4	Travel speed	max. 180 m/min

VISUAL AND MARKING

Sheath Color	Red	Marking	ÜNTEL Reelkab MSS (N)TSCGEWOE (NxS mm ²) (rated voltage) (Based on VDE 0250-813) [LOT NUMBER] [XXXX MT]
Cores	Color-coded phase identification ropes		

APPLICATION

This cable is specially designed for mobile equipment operating under high mechanical stresses. It is engineered to withstand high travel speeds, dynamic tensile loads, multi directional changes in movement across different planes, churning effects when running over rollers, and continuous torsional stresses. It is particularly suitable for fast moving container cranes, portal cranes, stacker reclaimers, and large scale mobile industrial machinery.

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Reelkab MSS (N)TSCGEWOEU

3,6/6 kV

CAN*	Cross-section (mm ²)	Conductor Diameter Max. (mm)	Earth Conductor Diameter Max. (mm)	Outer Sheath Diameter			Approx. Cable Weight (kg/km)	Min. Bending Radius Free moving (mm)	Permissible tensile force max. (N)	Dynamic tensile force max. (N)	Current Carrying Capacity (**) (A)	Short-circuit current (conductor) (kA)	Max. Electrical Resistance at 20°C (ohm/km)
				Min. (mm)	Nom. (mm)	Max. (mm)							
4731.1	3x16+3x16/3	5,90	3,60	36,0	37,9	39,0	2.117	390	960	1200	99	2,29	1,24
4731.2	3x25+3x25/3	7,30	4,60	38,5	40,5	41,5	2.636	415	1500	1875	131	3,58	0,795
4731.3	3x35+3x25/3	8,90	4,60	41,5	43,5	44,5	3.161	445	2100	2625	162	5,01	0,565
4731.4	3x50+3x25/3	10,50	4,60	44,5	46,3	47,5	3.768	475	3000	3750	202	7,15	0,393
4731.5	3x70+3x35/3	12,60	5,40	50,0	52,6	54,0	5.033	540	4200	5250	250	10,01	0,277
4731.6	3x95+3x50/3	14,40	6,50	54,0	56,1	58,0	6.101	580	5700	7125	301	13,59	0,21
4731.7	3x120+3x70/3	16,40	7,70	58,0	60,9	62,0	7.580	620	7200	9000	352	17,16	0,164
4731.8	3x150+3x70/3	18,20	7,70	63,0	65,7	67,0	8.856	670	9000	11250	404	21,45	0,132
4731.9	3x185+3x95/3	20,20	8,90	67,0	70,7	72,0	10.593	720	11100	13875	461	26,46	0,108
4731.10	3x240+3x120/3	23,10	10,00	71,5	77,0	78,0	13.117	780	14400	18000	540	34,32	0,0817
4731.11	3x300+3x150/3	26,00	11,30	77,0	82,6	83,6	15.870	836	18000	22500	620	42,90	0,0654

6/10 kV

CAN*	Cross-section (mm ²)	Conductor Diameter Max. (mm)	Earth Conductor Diameter Max. (mm)	Outer Sheath Diameter			Approx. Cable Weight (kg/km)	Min. Bending Radius Free moving (mm)	Permissible tensile force max. (N)	Dynamic tensile force max. (N)	Current Carrying Capacity (**) (A)	Short-circuit current (conductor) (kA)	Max. Electrical Resistance at 20°C (ohm/km)
				Min. (mm)	Nom. (mm)	Max. (mm)							
4732.1	3x16+3x16/3	5,90	3,60	36,0	37,5	39,0	2.082	390	960	1200	99	2,29	1,24
4732.2	3x25+3x25/3	7,30	4,60	40,0	41,7	43,0	2.750	430	1500	1875	131	3,58	0,795
4732.3	3x35+3x25/3	8,90	4,60	43,0	44,7	46,0	3.284	460	2100	2625	162	5,01	0,565
4732.4	3x50+3x25/3	10,50	4,60	45,0	46,9	48,0	3.836	480	3000	3750	202	7,15	0,393
4732.5	3x70+3x35/3	12,60	5,40	50,5	53,5	54,5	5.136	545	4200	5250	250	10,01	0,277
4732.6	3x95+3x50/3	14,40	6,50	54,5	56,9	58,5	6.210	585	5700	7125	301	13,59	0,21
4732.7	3x120+3x70/3	16,40	7,70	58,5	60,9	62,5	7.581	625	7200	9000	352	17,16	0,164
4732.8	3x150+3x70/3	18,20	7,70	63,0	65,9	67,0	8.896	670	9000	11250	404	21,45	0,132
4732.9	3x185+3x95/3	20,20	8,90	68,0	71,1	73,0	10.685	730	11100	13875	461	26,46	0,108
4732.10	3x240+3x120/3	23,10	10,00	73,0	77,0	78,0	13.156	780	14400	18000	540	34,32	0,0817
4732.11	3x300+3x150/3	26,00	11,30	77,5	83,4	84,5	16.029	845	18000	22500	620	42,90	0,0654

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

* CAN : Cable Article Number

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8,7/15 kV

CAN*	Cross-section (mm ²)	Conductor Diameter Max. (mm)	Earth Conductor Diameter Max. (mm)	Outer Sheath Diameter			Approx. Cable Weight (kg/km)	Min. Bending Radius Free moving (mm)	Permissible tensile force max. (N)	Dynamic tensile force max. (N)	Current Carrying Capacity (**) (A)	Short-circuit current (conductor) (kA)	Max. Electrical Resistance at 20 °C (ohm/km)
				Min. (mm)	Nom. (mm)	Max. (mm)							
4733.1	3x16+3x16/3	5,90	3,60	39,0	41,0	42,0	2.386	420	960	1200	105	2,29	1,24
4733.2	3x25+3x25/3	7,30	4,60	42,0	43,8	45,0	2.960	450	1500	1875	139	3,58	0,795
4733.3	3x35+3x25/3	8,90	4,60	45,0	47,3	49,0	3.549	490	2100	2625	172	5,01	0,565
4733.4	3x50+3x25/3	10,50	4,60	49,0	51,9	53,0	4.383	530	3000	3750	216	7,15	0,393
4733.5	3x70+3x35/3	12,60	5,40	53,0	55,8	57,0	5.427	570	4200	5250	265	10,01	0,277
4733.6	3x95+3x50/3	14,40	6,50	58,0	60,7	62,0	6.719	620	5700	7125	319	13,59	0,21
4733.7	3x120+3x70/3	16,40	7,70	63,0	65,5	67,0	8.205	670	7200	9000	371	17,16	0,164
4733.8	3x150+3x70/3	18,20	7,70	66,0	68,8	70,0	9.343	700	9000	11250	428	21,45	0,132
4733.9	3x185+3x95/3	20,20	8,90	70,0	72,8	74,0	10.963	740	11100	13875	488	26,46	0,108
4733.10	3x240+3x120/3	23,10	10,00	74,5	80,3	81,4	13.746	814	14400	18000	574	34,32	0,0817
4733.11	3x300+3x150/3	26,00	11,30	81,5	87,8	88,8	16.841	888	18000	22500	660	42,90	0,0654

12/20 kV

CAN*	Cross-section (mm ²)	Conductor Diameter Max. (mm)	Earth Conductor Diameter Max. (mm)	Outer Sheath Diameter			Approx. Cable Weight (kg/km)	Min. Bending Radius Free moving (mm)	Permissible tensile force max. (N)	Dynamic tensile force max. (N)	Current Carrying Capacity (**) (A)	Short-circuit current (conductor) (kA)	Max. Electrical Resistance at 20 °C (ohm/km)
				Min. (mm)	Nom. (mm)	Max. (mm)							
4734.1	3x25+3x25/3	7,30	4,60	45,0	46,8	48,0	3.261	480	1500	1875	139	3,58	0,795
4734.2	3x35+3x25/3	8,90	4,60	48,0	49,8	51,0	3.830	510	2100	2625	172	5,01	0,565
4734.3	3x50+3x25/3	10,50	4,60	51,0	53,8	55,0	4.620	550	3000	3750	216	7,15	0,393
4734.4	3x70+3x35/3	12,60	5,40	56,0	58,5	60,0	5.783	600	4200	5250	265	10,01	0,277
4734.5	3x95+3x50/3	14,40	6,50	60,0	62,8	64,0	6.997	640	5700	7125	319	13,59	0,21
4734.6	3x120+3x70/3	16,40	7,70	66,0	68,8	70,0	8.722	700	7200	9000	371	17,16	0,164
4734.7	3x150+3x70/3	18,20	7,70	69,0	71,5	73,0	9.802	730	9000	11250	428	21,45	0,132
4734.8	3x185+3x95/3	20,20	8,90	75,0	77,8	79,0	11.792	790	11100	13875	488	26,46	0,108
4734.9	3x240+3x120/3	23,10	10,00	77,0	82,8	83,9	14.242	839	14400	18000	574	34,32	0,0817
4734.10	3x300+3x150/3	26,00	11,30	84,0	90,3	91,3	17.354	913	18000	22500	660	42,90	0,0654
4732.11	3x300+3x150/3	26,00	11,30	77,5	83,4	84,5	16.029	845	18000	22500	620	42,90	0,0654

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

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