



Quality Through Experience

CRANE CABLES

REELKAB SERIES



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Crane Cables

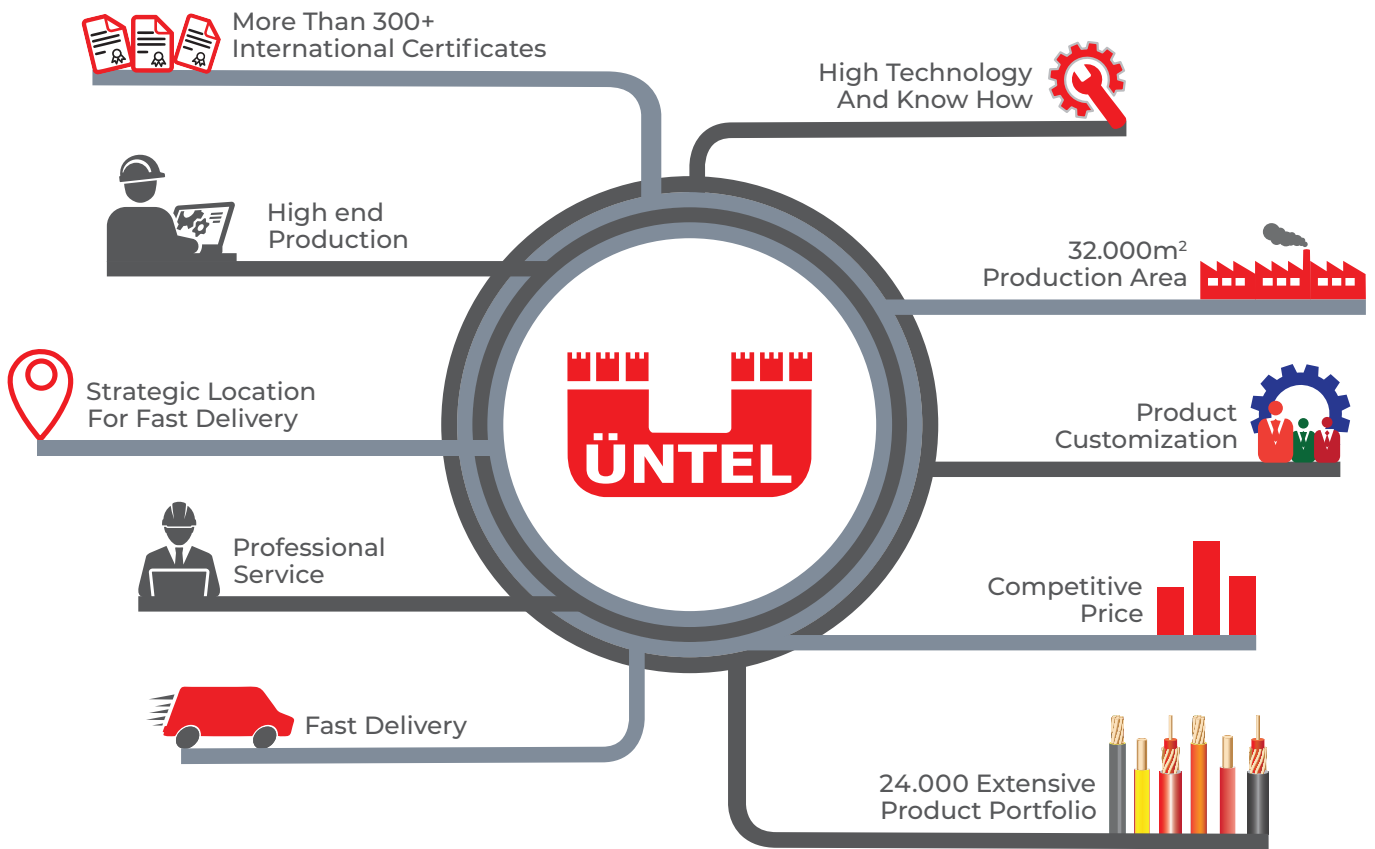


Quality Through Experience

HALF A CENTURY OF EXPERIENCE

HALF A CENTURY OF EXPERIENCE

Exporting Over 100+ Countries on 6 Continents



INDUSTRIAL CABLES

MARINE CABLES

OFFSHORE CABLES

MINING & TUNNELING CABLES

AIRPORT CABLES

RAILWAY CABLES

CRANE CABLES

DEFENSE INDUSTRY CABLES

INSTRUMENTATION CABLES



ABOUT US

ÜNTEL KABLO, one of leading cable manufacturers in the world was established in 1972, Turkey. With over 50 years of experience, it is constantly developing and optimizing its product range with the help of advanced technology and well-trained staff.

Product range consists over 24.000 different types of cables, covers both rubber and thermoplastic cables up to Medium Voltage (MV) range. ÜNTEL's power and instrumentation cables supplies energy for industries which requires experience like marine, offshore, mines and tunnels, airports, railways and have been used in industrial ways such as heavy-duty rubber drum reeling cables, welding cables, control cables and fire resistant cables. ÜNTEL is also able to produce tailor made products for special purposes. Today these products are exported over 100+ countries on 6 continents.

By the end of 2009, ÜNTEL finalized the investment of a new high-tech plant near Istanbul. Now continues her operations on 43.000 m² land space with 32.000 m² closed area. By having 3.000 tons copper drawing and 4.000 tons different type of

compound processing capacity, ÜNTEL produces 30.000 tones of cable per year. By means of new factory building, state of the art machines and unique ERP system investments ÜNTEL aimed absolute customer satisfaction.

Üntel's laboratories which are approved by organisations that specify the standards are equipped with advanced technology test and measurement devices. Within the scope of Quality System Certificates there is a quality management system presents in Üntel according to ISO, IQnet and TSE quality standards.. Around 300+ different types of cables are certified by global organisations like VDE, KEMA, ABS, UL, BV, DNV, RINA and TSE.

Üntel Kablo evaluate customer needs and expectations in a sectoral view and provide effective solutions with hundred percent customer satisfaction and qualified production philosophy. Üntel's biggest value is well trained and experienced staff and believe that exceptional quality comes through this experience.

Üntel Kablo offers 24.000 different types of Rubber, PVC, PE, LSZH and Polyurethane cables complying with global standards.



Solution partner of your projects..



CRANE CABLES

Quality Through Experience

Üntel Kablo is one of the leading manufacturer of crane and reeling cables in World and has been producing with approved quality for more then 50 years

Our Crane and Reeling cables are being produced to perform in extreme environmental conditions and specifically designed for carrying power and control signals to wide variety of mobile, lifting and handling equipments. These cables are durable for high mechanical, torsional stress and tensile loads, which impact their operational performance and working lifetime.

Flexible Crane and Reeling cables have been designed to provide reliability and withstand extreme conditions in terms of; heavy tensile and bending stress' (Minimum Bending Radius at any stress conditions) for cable carriages and movable appliances.

Main Applications:

- Lift and Conveyor Systems
- Crane and Hoist Systems
- Construction sites, Container Terminals and Shipyards
- Road Construction and Mining Industry
- Mobile Machinery
- Handling Equipments
- Reeling Applications

Our factory produces rubber cables using CV (Continuous Vulcanization) technology, capable of extruding three layers of rubber in a single operation. These lines are equipped with devices that control the entire cable production process to ensure the highest quality.

Üntel Kablo manufactures Crane and Reel cables based on specialized cable specifications and design principles developed through its many years of experience. The cables in our product range are manufactured with the highest quality components, combined with decades of manufacturing experience to provide solutions for our customers' specific applications.

With over 50 years of R&D experience, Üntel manufactures a wide range of cables with advanced production equipment and well-trained personnel, meeting the specific needs and requirements of its customers by offering them the highest quality products.



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Reelkab MS (N)TSCGEW0EU



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. (Except 1,8/3 kV)
Core Arrangement	A three core design, where the earth conductor is divided into three parts and placed in the spaces between the cores. 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 6081-404
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 30 N/mm ² (during acceleration)
Short Circuit Temperature	250°C (Max. 5 s)	Torsional Stress	± 25 °/m
Min. Ambient Temperature	-50°C	Min. Distance with S-Type Directional Changes	20 x D
Max. Current Carrying Capacity	VDE 0298-4	Travel speed	max. 240 m/min

VISUAL AND MARKING

Sheath Color	Red	Marking	ÜNTEL Reelkab MS (N)TSCGEW0EU (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 to extreme 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 MS (N)TSCGEWOEU

1,8/3 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)							
4711.1	3x25+3x25/3	7,30	4,50	34,3	36,3	37,3	2.258	373	1500	2250	131	3,58	0,795
4711.2	3x35+3x25/3	8,80	4,50	43,0	44,5	46,0	3.193	460	2100	3150	162	5,01	0,565
4711.3	3x50+3x25/3	10,50	4,50	46,4	47,8	49,4	3.863	494	3000	4500	202	7,15	0,393
4711.4	3x70+3x35/3	12,60	5,40	45,9	47,7	48,9	4.471	489	4200	6300	250	10,01	0,277
4711.5	3x95+3x50/3	14,50	6,40	50,3	53,2	54,3	5.748	543	5700	8550	301	13,59	0,21
4711.6	3x120+3x70/3	16,40	7,70	63,8	66,6	67,8	8.279	678	7200	10800	352	17,16	0,164
4711.7	3x150+3x70/3	18,10	7,70	67,7	69,9	71,7	9.361	717	9000	13500	404	21,45	0,132
4711.8	3x185+3x95/3	20,20	9,00	71,6	74,1	75,6	11.073	756	11100	16650	461	26,46	0,108
4711.9	3x240+3x120/3	23,40	10,10	79,4	82,1	83,4	14.058	834	14400	21600	540	34,32	0,0817
4711.10	3x300+3x150/3	26,10	11,40	84,7	88,3	89,7	16.964	897	18000	27000	620	42,90	0,0654

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)							
4712.1	3x25+3x25/3	7,30	4,50	35,5	38,6	39,6	2.461	396	1500	2250	131	3,58	0,795
4712.2	3x35+3x25/3	8,80	4,50	39,0	41,5	42,6	2.964	426	2100	3150	162	5,01	0,565
4712.3	3x50+3x25/3	10,50	4,50	42,4	44,8	45,9	3.617	459	3000	4500	202	7,15	0,393
4712.4	3x70+3x35/3	12,60	5,40	46,4	48,8	49,9	4.617	499	4200	6300	250	10,01	0,277
4712.5	3x95+3x50/3	14,50	6,40	51,4	54,5	55,5	5.945	555	5700	8550	301	13,59	0,21
4712.6	3x120+3x70/3	16,40	7,70	55,0	57,8	59,0	7.184	590	7200	10800	352	17,16	0,164
4712.7	3x150+3x70/3	18,10	7,70	58,8	61,8	62,8	8.284	628	9000	13500	404	21,45	0,132
4712.8	3x185+3x95/3	20,20	9,00	64,0	67,0	68,0	10.063	680	11100	16650	461	26,46	0,108
4712.9	3x240+3x120/3	23,40	10,10	72,5	75,4	76,5	12.990	765	14400	21600	540	34,32	0,0817
4712.10	3x300+3x150/3	26,10	11,40	78,2	81,1	82,2	15.704	822	18000	27000	620	42,90	0,0654

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

* CAN : Cable Article Number

Reelkab MS (N)TSCGEWOEU

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)							
4713.1	3x25+3x25/3	7,30	4,50	37,8	39,8	40,8	2.558	408	1500	2250	131	3,58	0,795
4713.2	3x35+3x25/3	8,80	4,50	40,2	42,1	43,2	3.016	432	2100	3150	162	5,01	0,565
4713.3	3x35+3x35/3	8,80	5,40	40,2	42,1	43,2	3.126	432	2100	3150	162	5,01	0,565
4713.4	3x35+3x50/3	8,80	6,40	42,7	44,6	45,7	3.525	457	2100	3150	162	5,01	0,565
4713.5	3x50+3x25/3	10,50	4,50	43,7	45,6	46,7	3.690	467	3000	4500	202	7,15	0,393
4713.6	3x70+3x35/3	12,60	5,40	47,7	49,6	50,7	4.698	507	4200	6300	250	10,01	0,277
4713.7	3x95+3x50/3	14,50	6,40	52,8	55,7	56,8	6.080	568	5700	8550	301	13,59	0,21
4713.8	3x120+3x70/3	16,40	7,70	56,2	59,0	60,2	7.328	602	7200	10800	352	17,16	0,164
4713.9	3x150+3x70/3	18,10	7,70	61,5	64,4	65,5	8.618	655	9000	13500	404	21,45	0,132
4713.10	3x185+3x95/3	20,20	9,00	65,3	68,2	69,3	10.239	693	11100	16650	461	26,46	0,108
4713.11	3x240+3x120/3	23,40	10,10	73,8	76,6	77,8	13.193	778	14400	21600	540	34,32	0,0817
4713.12	3x300+3x150/3	26,10	11,40	79,5	82,4	83,5	15.956	835	18000	27000	620	42,9	0,0654

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)							
4714.1	3x25+3x25/3	7,30	4,50	41,1	42,9	44,1	2.857	441	1500	2250	139	3,58	0,795
4714.2	3x35+3x25/3	8,80	4,50	43,7	45,7	46,7	3.373	467	2100	3150	172	5,01	0,565
4714.3	3x50+3x25/3	10,50	4,50	47,1	49,0	50,1	4.055	501	3000	4500	216	7,15	0,393
4714.4	3x70+3x35/3	12,60	5,40	52,0	54,8	56,0	5.291	560	4200	6300	265	10,01	0,277
4714.5	3x95+3x50/3	14,50	6,40	57,2	59,7	61,2	6.599	612	5700	8550	319	13,59	0,21
4714.6	3x120+3x70/3	16,40	7,70	62,1	65,0	66,1	8.138	661	7200	10800	371	17,16	0,164
4714.7	3x150+3x70/3	18,10	7,70	65,9	68,8	69,9	9.274	699	9000	13500	428	21,45	0,132
4714.8	3x185+3x95/3	20,20	9,00	69,8	72,6	73,8	10.920	738	11100	16650	488	26,46	0,108
4714.9	3x240+3x120/3	23,40	10,10	77,3	80,2	81,3	13.821	813	14400	21600	574	34,32	0,0817
4714.10	3x300+3x150/3	26,10	11,40	84,2	88,0	89,2	17.003	892	18000	27000	660	42,9	0,0654

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

* CAN : Cable Article Number

Reelkab MS (N)TSCGEWOEU

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)							
4715.1	3x25+3x25/3	7,30	4,50	44,1	46,1	47,1	3.173	471	1500	2250	139	3,58	0,795
4715.2	3x35+3x25/3	8,80	4,50	46,6	48,6	49,6	3.686	496	2100	3150	172	5,01	0,565
4715.3	3x50+3x25/3	10,50	4,50	51,8	54,4	55,8	4.656	558	3000	4500	216	7,15	0,393
4715.4	3x70+3x35/3	12,60	5,40	55,0	58,0	59,0	5.702	590	4200	6300	265	10,01	0,277
4715.5	3x95+3x50/3	14,50	6,40	61,6	64,2	65,6	7.212	656	5700	8550	319	13,59	0,21
4715.6	3x120+3x70/3	16,40	7,70	65,1	68,0	69,1	8.582	691	7200	10800	371	17,16	0,164
4715.7	3x150+3x70/3	18,10	7,70	69,0	71,3	73,0	9.678	730	9000	13500	428	21,45	0,132
4715.8	3x185+3x95/3	20,20	9,00	74,3	77,2	78,3	11.664	783	11100	16650	488	26,46	0,108
4715.9	3x240+3x120/3	23,40	10,10	80,3	83,1	84,3	14.414	843	14400	21600	574	34,32	0,0817
4715.10	3x300+3x150/3	26,10	11,40	87,2	90,5	92,2	17.518	922	18000	27000	660	42,9	0,0654

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

* CAN : Cable Article Number

Reelkab MSFO (N)TSCGEWOEU



*For more detailed information on Fiber, please refer to the technical page.

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
Optical Fiber	Fiber core diameter: 50, 62,5, or 9 μ m ; cladding diameter: 125 μ m ; coating diameter: 250 μ m
Fiber Covering	Up to 24 cores fiber are used in PBT
Core Arrangement	A three core design, where the earth conductor is divided into two parts and placed in the spaces between the cores with fiber optic element. 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 60811-4-04
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 30 N/mm ² (acc. to VDE 0298 3 : 15 N mm ²)
Short Circuit Temperature	250°C (Max. 5 s)	Torsional Stress	± 25 °/m
Min. Ambient Temperature	-50°C	Min. Distance with S-Type	20 x D
Max. Current Carrying Capacity	VDE 0298-4	Directional Changes	
		Travel speed	max. 240 m/min

VISUAL AND MARKING

Sheath Color	Red	Marking	ÜNTEL Reelkab MSFO (N)TSCGEWOEU (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 to extreme mechanical stresses with integrated fibre optics for the combined transmission of energy and data. 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 MSFO (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)							
4721.1	3x25+2x25/2+1x(6G62,5)	7,30	5,60	39,9	41,7	42,9	2.740	429	1500	2250	131	3,58	0,795
4721.2	3x35+2x25/2+1x(6G62,5)	8,80	5,60	42,0	43,8	45,0	3.152	450	2100	3150	162	5,01	0,565
4721.3	3x50+2x25/2+1x(6G62,5)	10,50	5,60	44,8	46,7	47,8	3.779	478	3000	4500	202	7,15	0,393
4721.4	3x70+2x35/2+1x(6G62,5)	12,60	6,60	49,9	52,5	53,9	4.987	539	4200	6300	250	10,01	0,277
4721.5	3x95+2x50/2+1x(6G62,5)	14,50	7,90	54,8	57,6	58,8	6.304	588	5700	8550	301	13,59	0,21
4721.6	3x120+2x70/2+1x(6G62,5)	16,40	9,50	58,2	61,1	62,2	7.588	622	7200	10800	352	17,16	0,164
4721.7	3x150+2x70/2+1x(6G62,5)	18,10	9,50	63,5	66,5	67,5	8.906	675	9000	13500	404	21,45	0,132
4721.8	3x185+2x95/2+1x(6G62,5)	20,20	11,10	67,5	72,8	73,9	10.943	739	11100	16650	461	26,46	0,108
4721.9	3x240+2x120/2+1x(6G62,5)	23,40	12,40	75,0	80,8	81,8	13.907	818	14400	21600	540	34,32	0,0817
4721.10	3x300+2x150/2+1x(6G62,5)	26,10	13,70	82,0	88,0	89,0	16.938	890	18000	27000	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)							
4722.1	3x25+2x25/2+1x(6G62,5)	7,30	5,60	40,7	42,5	43,7	2.816	437	1500	2250	131	3,58	0,795
4722.2	3x35+2x25/2+1x(6G62,5)	8,80	5,60	42,7	44,6	45,7	3.245	457	2100	3150	162	5,01	0,565
4722.3	3x50+2x25/2+1x(6G62,5)	10,50	5,60	46,1	47,9	49,1	3.918	491	3000	4500	202	7,15	0,393
4722.4	3x70+2x35/2+1x(6G62,5)	12,60	6,60	51,1	54,0	55,1	5.155	551	4200	6300	250	10,01	0,277
4722.5	3x95+2x50/2+1x(6G62,5)	14,50	7,90	56,1	58,6	60,1	6.428	601	5700	8550	301	13,59	0,21
4722.6	3x120+2x70/2+1x(6G62,5)	16,40	9,50	60,9	63,8	64,9	7.944	649	7200	10800	352	17,16	0,164
4722.7	3x150+2x70/2+1x(6G62,5)	18,10	9,50	64,8	67,1	68,8	8.998	688	9000	13500	404	21,45	0,132
4722.8	3x185+2x95/2+1x(6G62,5)	20,20	11,10	69,3	72,0	73,3	10.805	733	11100	16650	461	26,46	0,108
4722.9	3x240+2x120/2+1x(6G62,5)	23,40	12,40	76,7	79,5	80,7	13.722	807	14400	21600	540	34,32	0,0817
4722.10	3x300+2x150/2+1x(6G62,5)	26,10	13,70	84,2	88,0	89,2	16.937	892	18000	27000	620	42,90	0,0654

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

* CAN : Cable Article Number

*** Design available with 6, 12, 18 ort 24 fibers.

Reelkab MSFO (N)TSCGEWOEU

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)							
4723.1	3x25+2x25/2+1x(6G62,5)	7,30	5,60	43,5	45,4	46,5	3.091	465	1500	2250	139	3,58	0,795
4723.2	3x35+2x25/2+1x(6G62,5)	8,80	5,60	46,1	47,1	49,1	3.501	491	2100	3150	172	5,01	0,565
4723.3	3x50+2x25/2+1x(6G62,5)	10,50	5,60	50,5	53,1	54,5	4.490	545	3000	4500	216	7,15	0,393
4723.4	3x70+2x35/2+1x(6G62,5)	12,60	6,60	55,2	58,0	59,2	5.675	592	4200	6300	265	10,01	0,277
4723.5	3x95+2x50/2+1x(6G62,5)	14,50	7,90	60,9	63,8	64,9	7.140	649	5700	8550	319	13,59	0,21
4723.6	3x120+2x70/2+1x(6G62,5)	16,40	9,50	64,4	67,1	68,4	8.435	684	7200	10800	371	17,16	0,164
4723.7	3x150+2x70/2+1x(6G62,5)	18,10	9,50	68,8	71,3	72,8	9.662	728	9000	13500	428	21,45	0,132
4723.8	3x185+2x95/2+1x(6G62,5)	20,20	11,10	74,1	76,7	78,1	11.591	781	11100	16650	488	26,46	0,108
4723.9	3x240+2x120/2+1x(6G62,5)	23,40	12,40	80,8	83,3	84,8	14.420	848	14400	21600	574	34,32	0,0817
4723.10	3x300+2x150/2+1x(6G62,5)	26,10	13,70	87,7	91,3	92,7	17.625	927	18000	27000	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)							
4724.1	3x25+2x25/2+1x(6G62,5)	7,30	5,60	46,6	48,0	49,6	3.362	496	1500	2250	139	3,58	0,795
4724.2	3x35+2x25/2+1x(6G62,5)	8,80	5,60	50,1	52,3	54,1	4.073	541	2100	3150	172	5,01	0,565
4724.3	3x50+2x25/2+1x(6G62,5)	10,50	5,60	54,1	56,9	58,1	4.981	581	3000	4500	216	7,15	0,393
4724.4	3x70+2x35/2+1x(6G62,5)	12,60	6,60	58,2	60,5	62,2	6.020	622	4200	6300	265	10,01	0,277
4724.5	3x95+2x50/2+1x(6G62,5)	14,50	7,90	64,0	66,3	68,0	7.512	680	5700	8550	319	13,59	0,21
4724.6	3x120+2x70/2+1x(6G62,5)	16,40	9,50	68,0	70,5	72,0	8.966	720	7200	10800	371	17,16	0,164
4724.7	3x150+2x70/2+1x(6G62,5)	18,10	9,50	73,3	76,1	77,3	10.434	773	9000	13500	428	21,45	0,132
4724.8	3x185+2x95/2+1x(6G62,5)	20,20	11,10	77,2	79,7	81,2	12.157	812	11100	16650	488	26,46	0,108
4724.9	3x240+2x120/2+1x(6G62,5)	23,40	12,40	85,1	88,9	90,1	15.485	901	14400	21600	574	34,32	0,0817
4724.10	3x300+2x150/2+1x(6G62,5)	26,10	13,70	91,3	94,7	96,3	18.341	963	18000	27000	660	42,90	0,0654

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

* CAN : Cable Article Number

*** Design available with 6, 12, 18 ort 24 fibers.



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

Reelkab MSS (N)TSCGEWOEU

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

* CAN : Cable Article Number



Reelkab MSSFO (N)TSCGEWOEU



*For more detailed information on Fiber, please refer to the technical page.

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
Optical Fiber	Fiber core diameter: 50, 62,5, or 9 μ m ; cladding diameter: 125 μ m ; coating diameter : 250 μ m
Fiber Covering	Up to 24 cores fiber are used in PBT
Core Arrangement	A three core design, where the earth conductor is divided into two parts and placed in the spaces between the cores with fiber optic element, with the cores layed up around a semi conductive filler incorporating an aramid rope at the center for added tensile strength and structural stability.
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 (acc. to VDE 0298-3 : 15 N mm ²)
Short Circuit Temperature	250°C (Max. 5 s)	Torsional Stress	± 50 °/m
Min. Ambient Temperature	-40°C	Min. Distance with S-Type	20 x D
Max. Current Carrying Capacity	VDE 0298-4	Directional Changes	
		Travel speed	max. 180 m/min

VISUAL AND MARKING

Sheath Color	Red	Marking	ÜNTEL Reelkab MSSFO (N)TSCGEWOEU (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 to extreme mechanical stresses with integrated fibre optics for the combined transmission of energy and data 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 MSSFO (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)							
4741.1	3x25+2x25/2+1x(12G62,5)	7,30	5,50	38,5	41,6	42,6	2.737	426	1500	1875	131	3,58	0,795
4741.2	3x35+2x25/2+1x(12G62,5)	8,90	5,50	41,5	43,3	44,5	3.121	445	2100	2625	162	5,01	0,565
4741.3	3x50+2x25/2+1x(12G62,5)	10,50	5,50	44,5	46,3	47,5	3.748	475	3000	3750	202	7,15	0,393
4741.4	3x70+2x35/2+1x(12G62,5)	12,60	6,60	50,0	52,6	54,0	5.018	540	4200	5250	250	10,01	0,277
4741.5	3x95+2x50/2+1x(12G62,5)	14,40	7,80	54,0	56,9	58,0	6.180	580	5700	7125	301	13,59	0,21
4741.6	3x120+2x70/2+1x(12G62,5)	16,40	9,50	59,5	64,6	65,7	8.058	657	7200	9000	352	17,16	0,164
4741.7	3x150+2x70/2+1x(12G62,5)	18,20	9,50	63,0	65,7	67,0	8.833	670	9000	11250	404	21,45	0,132
4741.8	3x185+2x95/2+1x(12G62,5)	20,20	10,80	67,0	70,7	72,0	10.552	720	11100	13875	461	26,46	0,108
4741.9	3x240+2x120/2+1x(12G62,5)	23,10	12,40	74,5	80,3	81,4	13.750	814	14400	18000	540	34,32	0,0817
4741.10	3x300+2x150/2+1x(12G62,5)	26,00	13,60	81,5	87,8	88,8	16.777	888	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)							
4742.1	3x25+2x25/2+1x(12G62,5)	7,30	5,50	40,0	42,0	43,0	2.770	430	1500	1875	131	3,58	0,795
4742.2	3x35+2x25/2+1x(12G62,5)	8,90	5,50	42,0	43,9	45,0	3.178	450	2100	2625	162	5,01	0,565
4742.3	3x50+2x25/2+1x(12G62,5)	10,50	5,50	45,0	46,9	48,0	3.807	480	3000	3750	202	7,15	0,393
4742.4	3x70+2x35/2+1x(12G62,5)	12,60	6,60	51,0	53,9	55,0	5.171	550	4200	5250	250	10,01	0,277
4742.5	3x95+2x50/2+1x(12G62,5)	14,40	7,80	55,0	57,4	59,0	6.234	590	5700	7125	301	13,59	0,21
4742.6	3x120+2x70/2+1x(12G62,5)	16,40	9,50	58,5	61,3	62,5	7.630	625	7200	9000	352	17,16	0,164
4742.7	3x150+2x70/2+1x(12G62,5)	18,20	9,50	63,0	65,7	67,0	8.834	670	9000	11250	404	21,45	0,132
4742.8	3x185+2x95/2+1x(12G62,5)	20,20	10,80	67,5	72,8	73,9	10.920	739	11100	13875	461	26,46	0,108
4742.9	3x240+2x120/2+1x(12G62,5)	23,10	12,40	73,0	77,0	78,0	13.194	780	14400	18000	540	34,32	0,0817
4742.10	3x300+2x150/2+1x(12G62,5)	26,00	13,60	81,5	87,8	88,8	16.777	888	18000	22500	620	42,90	0,0654

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

* CAN : Cable Article Number

*** Design available with 6, 12, 18 ort 24 fibers.

Reelkab MSSFO (N)TSCGEWOEU

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)							
4743.1	3x25+2x25/2+1x(12G62,5)	7,30	5,50	42,0	43,8	45,0	2.937	450	1500	1875	139	3,58	0,795
4743.2	3x35+2x25/2+1x(12G62,5)	8,90	5,50	45,0	47,3	49,0	3.527	490	2100	2625	172	5,01	0,565
4743.3	3x50+2x25/2+1x(12G62,5)	10,50	5,50	50,0	52,8	54,0	4.449	540	3000	3750	216	7,15	0,393
4743.4	3x70+2x35/2+1x(12G62,5)	12,60	6,60	53,0	55,8	57,0	5.422	570	4200	5250	265	10,01	0,277
4743.5	3x95+2x50/2+1x(12G62,5)	14,40	7,80	58,0	60,7	62,0	6.688	620	5700	7125	319	13,59	0,21
4743.6	3x120+2x70/2+1x(12G62,5)	16,40	9,50	64,0	66,7	68,0	8.372	680	7200	9000	371	17,16	0,164
4743.7	3x150+2x70/2+1x(12G62,5)	18,20	9,50	68,0	70,7	72,0	9.641	720	9000	11250	428	21,45	0,132
4743.8	3x185+2x95/2+1x(12G62,5)	20,20	10,80	72,0	75,9	77,0	11.426	770	11100	13875	488	26,46	0,108
4743.9	3x240+2x120/2+1x(12G62,5)	23,10	12,40	77,0	82,8	83,9	14.221	839	14400	18000	574	34,32	0,0817
4743.10	3x300+2x150/2+1x(12G62,5)	26,00	13,60	84,0	90,3	91,3	17.289	913	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)							
4744.1	3x25+2x25/2+1x(12G62,5)	7,30	5,50	45,0	46,8	48,0	3.239	480	1500	1875	139	3,58	0,795
4744.2	3x35+2x25/2+1x(12G62,5)	8,90	5,50	47,0	48,9	50,0	3.721	500	2100	2625	172	5,01	0,565
4744.3	3x50+2x25/2+1x(12G62,5)	10,50	5,50	51,0	53,8	55,0	4.598	550	3000	3750	216	7,15	0,393
4744.4	3x70+2x35/2+1x(12G62,5)	12,60	6,60	56,0	58,5	60,0	5.777	600	4200	5250	265	10,01	0,277
4744.5	3x95+2x50/2+1x(12G62,5)	14,40	7,80	60,0	62,8	64,0	6.964	640	5700	7125	319	13,59	0,21
4744.6	3x120+2x70/2+1x(12G62,5)	16,40	9,50	66,0	68,8	70,0	8.698	700	7200	9000	371	17,16	0,164
4744.7	3x150+2x70/2+1x(12G62,5)	18,20	9,50	69,0	71,5	73,0	9.778	730	9000	11250	428	21,45	0,132
4744.8	3x185+2x95/2+1x(12G62,5)	20,20	10,80	75,0	77,8	79,0	11.747	790	11100	13875	488	26,46	0,108
4744.9	3x240+2x120/2+1x(12G62,5)	23,10	12,40	78,5	84,5	85,6	14.568	856	14400	18000	574	34,32	0,0817
4744.10	3x300+2x150/2+1x(12G62,5)	26,00	13,60	85,5	92,0	93,0	17.639	930	18000	22500	660	42,90	0,0654

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

* CAN : Cable Article Number

*** Design available with 6, 12, 18 ort 24 fibers.



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 embedded 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 Capacity	VDE 0298-4
Max. Tensile Load on the Conductor	15 N/mm ²
Torsional Stress	± 50 °/m
Travel Speed	Permitted running speed up 240m/min

VISUAL AND MARKING

Color	Black (other colors on request)
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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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Reelkab RV (N)SHTOEU

CAN*	Cross-section (mm ²)	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

Typical Signal Transmission Distance by Fiber Grade / Type ***

Grade	Type	Typical Core Size	1 Gb Distance	10 Gb Distance	40 Gb Distance	100 Gb Distance
OM1	Multimode	62.5 µm	300 m / 1,000 ft.	36 m / 118 ft.	Not Recommended	Not Recommended
OM2	Multimode	50 µm	550 m / 1,800 ft.	86 m / 282 ft.	Not Recommended	Not Recommended
OM3	Multimode	50 µm	1,000 m / 3,280 ft.	300 m / 1,000 ft.	100 m / 330 ft.	100 m / 330 ft.
OM4	Multimode	50 µm	1,000 m / 3,280 ft.	550 m / 1,800 ft.	125 m / 410 ft.	125 m / 410 ft.
OS1	Single mode	9 µm	2,000 m / 6,560 ft.	2,000 m / 6,560 ft.	Not Recommended	Not Recommended
OS2	Single mode	9 µm	10 km / 6.2 miles	10 km / 6.2 miles	10 km / 6.2 miles	10 km / 6.2 miles
Resolution				1080 p	4K HDR	8 K

**OFFSHORE
CABLES**



**AIRPORT
CABLES**



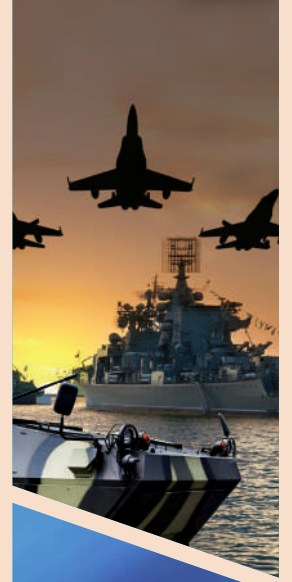
**CRANE
CABLES**



**MINING
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**DEFENSE
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**RAILWAY
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**INDUSTRIAL
CABLES**



**TUNNELLING
CABLES**



**INSTRUMENTATION
CABLES**



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