



RADOX® GKW-LW, 600 V Traction cable

Halogen free, compact, dual wall cable in a light weight design for demanding applications

RADOX® GKW-LW single core cables have small diameters, low weight and a smooth and abrasion resistant surface. They are resistant to low and high temperatures, ozone and weathering and have excellent electrical characteristics, particularly in damp or humid conditions.

Due to their light weight construction, RADOX® GKW-LW cables are perfect for compact system wiring applications in modern rolling stock where space is at a premium and weight is restricted. A typical application is the use of GKW-LW cores as signal or control cables in locomotives. They can be installed in ducts and conduits or left open in cabinets or under floor cable ducts.

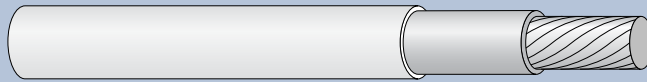
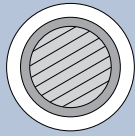
Fire performance characteristics:
BS 6853 - Ia, Ib, II
DIN 5510 - 1 to 4
NF F 16-101

- Voltage rating 600/1000 V
- Operating temperature -40°C to +120°C
- High abrasion resistance
- Flexible
- Halogen free and flame retardant
- Resistant to mineral oils and detergents
- "Light Weight" design saves space and weight



RADOX® GKW-LW

Traction cable



Conductor: stranded, tin plated copper
 Primary insulation: RADOX® GKW P
 Secondary insulation: RADOX® GKW HP, color white

Cross-section AWG	Conductor construction n x mm	Conductor dia. nom. mm	Core dia. nom. mm	R ₂₀ max. Ω/km	Weight nom. kg/100 m	Standard Packaging	Part No.
24	19 x 0.13	0.60 ± 0.03	1.02 ± 0.05	86.0	0.30	2000 m DIN 200	12 556 111
22	19 x 0.16	0.78 ± 0.03	1.19 ± 0.05	53.1	0.45	2000 m DIN 250	12 556 112
20	19 x 0.20	0.97 ± 0.03	1.40 ± 0.05	31.1	0.65	1500 m DIN 250	12 556 114
18	19 x 0.25	1.21 ± 0.05	1.65 ± 0.05	20.0	1.0	2000 m L 355	12 556 335
16	19 x 0.28	1.37 ± 0.05	1.83 ± 0.05	15.5	1.2	2000 m L 355	12 556 117
14	37 x 0.25	1.67 ± 0.07	2.20 ± 0.10	10.5	1.9	1500 m L 355	12 556 119
12	37 x 0.32	2.18 ± 0.10	2.74 ± 0.10	6.56	2.9	1000 m L 355	12 556 121

Cross-section mm ²	Conductor construction n x mm	Conductor dia. nom. mm	Core dia. nom. mm	R ₂₀ max. Ω/km	Weight nom. kg/100 m	Standard Packaging	Part No.
0.50	19 x 0.18	0.92 ± 0.03	1.30 ± 0.05	40.1	0.55	2000 m DIN 250	12 556 113
0.75	19 x 0.22	1.12 ± 0.05	1.51 ± 0.05	26.7	0.80	2000 m L 355	12 556 115
1.0	19 x 0.25	1.21 ± 0.05	1.65 ± 0.05	20.0	1.0	2000 m L 355	12 556 335
1.5	19 x 0.31	1.52 ± 0.05	2.01 ± 0.05	13.7	1.5	2000 m L 355	12 554 494
2.5	19 x 0.40	1.97 ± 0.10	2.60 ± 0.10	8.21	2.4	2000 m L 355	12 554 495
3.0	37 x 0.32	2.18 ± 0.10	2.74 ± 0.10	6.56	2.9	1000 m L 355	12 556 121

Other colors available on request.

Technical Specification

Voltage rating: 600/1000 V AC; 750/1500 V DC
 Test voltage: 3500 V, 50 Hz, 5 min.
 Temperature range: -40°C to +120°C

Other Versions

RADOX® GKW-LW/S: multicore design
 RADOX® GKW-LW/S EMC: multicore design with screen
 RADOX® GKW-LW/S R: multicore design with armour

HUBER+SUHNER Group is certified according to
 ISO 9001 and ISO 14001

Waiver

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