



OTTO KUHLMANN

AUTOMOTIVE SYSTEM-PARTS GMBH

SOLID WIRE RINGS / CABLE BEADS FOR TYRE INDUSTRY

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TECHNICAL SPECIFICATION ROUND CABLE BEADS OF STEEL WIRE *)

constructions < 10 mm cross section diameter	cross section diameter [mm]	minimum theoretical breaking load [kN]	constructions > 10 mm cross section diameter	cross section diameter [mm]	minimum theoretical breaking load [kN]
1x1.2+ (6) x 0.96	3.12	7.87	1x2.5+ (7+13) x 1.8	9.70	95.81
1x1.5+ (7) x 0.96	3.42	9.82	1x1.6+ (6+12+18) x 1.4	10.00	112.31
1x1.4+ (6) x 1.2	3.80	12.16	1x3+ (8+14) x 1.8	10.20	106.86
1x1.4+ (6) x 1.3	4.00	14.91	1x6+ (11) x 2.2	10.40	83.00
1x1.5+ (6) x 1.3	4.10	15.08	1x3+ (7+14) x 2	11.00	124.77
1x1.5+ (6) x 1.4	4.30	17.28	1x4.5+ (10+16) x 1.8	11.70	127.88
1x1.6+ (6) x 1.4	4.40	17.51	1x3+ (7+13) x 2.2	11.80	142.87
1x2.5+ (10) x 0.96	4.42	15.41	1x1.6+ (6+12+18+23) x 1.3	12.00	159.47
1x1.8+ (7) x 1.4	4.60	21.51	1x5+ (11+17) x 1.8	12.20	138.98
1x2.2+ (8) x 1.3	4.80	22.24	1x3+ (9+15+21) x 1.55	12.30	170.05
1x2.2+ (8) x 1.4	5.00	25.32	1x4+ (9+15) x 2.2	12.80	172.34
1x1.2+ (6+12) x 0.96	5.04	24.55	1x5+ (10+16) x 2	13.00	157.70
1x2.15+ (7) x 1.55	5.25	25.82	1x2.5+ (7+13+19) x 1.8	13.30	188.72
1x1.2+(6)x0.96+(11)x1.2	5.52	31.60	1x3+ (8+14+20) x 1.8	13.80	204.66
1x1.2+(6)x1.20+(14)x0.96	5.52	32.66	1x5+ (10+16) x 2.2	13.80	189.45
1x3+ (10) x 1.3	5.60	28.65	1x5+ (13+19+25) x 1.55	14.30	218.07
1x2.5+ (7) x 1.8	6.10	32.24	1x6+ (11+17) x 2.2	14.80	207.10
1x3+ (9) x 1.55	6.10	36.84	1x3+ (7+13+20) x 2	15.00	239.34
1x1.8+ (7+14) x 1.2	6.60	45.95	1x5+ (11+17+23) x 1.8	15.80	251.45
1x3+ (8) x 1.8	6.60	38.40	1x5+ (10+16+22) x 2	17.00	290.36
1x1.5+ (6+12) x 1.3	6.70	47.72	1x3+ (9+15+21+27) x 1.55	17.40	271.84
1x1.6+ (6+12) x 1.3	6.80	47.95	1x6+ (11+17+23) x 2	18.00	311.50
1x1.8+ (7+13) x 1.3	7.00	54.23	1x5+ (10+16+22) x 2.2	18.20	350.05
1x3+ (7) x 2	7.00	40.35	1x6+ (11+17+23) x 2.2	19.20	375.00
1x1.6+ (6+12) x 1.4	7.20	58.59	1x5+ (11+17+23+29) x 1.8	19.40	393.26
1x1.8+ (7+13) x 1.4	7.40	62.59	1x3+ (9+15+21+27+31) x 1.55	20.50	388.71
1x3+ (7) x 2.2	7.40	47.97	1x5+ (10+16+22+28) x 2	21.00	459.20
1x1.2+(7+13)x0.96+(16)x1.2	7.44	62.56	1x6+ (11+17+23+30) x 2	22.00	492.40
1x2+ (7+13) x 1.4	7.60	62.81	1x5+ (10+16+22+28) x 2.2	22.60	554.45
1x2.1+ (7+14) x 1.4	7.70	66.40	1x5+ (11+17+23+29+35) x 1.8	23.00	564.41
1x2.2+ (8+14) x 1.4	7.80	69.56	1x5+ (13+19+25+31+37+41) x 1.55	23.60	629.00
1x1.6+(6)x1.4+(10)x1.8	8.00	64.64	1x6+ (11+17+23+29) x 2.2	23.60	586.70
1x4+ (9) x 2	8.00	52.68	1x6+ (11+17+23+29+35) x 2	26.00	697.42
1x4+ (8) x 2.2	8.40	55.54	1x5+ (10+16+22+28+33) x 2.2	27.00	795.35
1x5+ (11) x 1.8	8.60	55.85	1x6+ (11+17+23+29+35) x 2.2	28.00	842.20
1x4.5+ (9) x 2.2	8.90	64.03	1x6+ (11+17+23+29+35+40) x 2.2	32.40	1134.20
1x5+ (10) x 2	9.00	61.22	1x6+ (11+17+23+29+34+39+45) x 2.2	36.80	1448.10
1x3+ (9+15) x 1.55	9.20	90.88	1x5+ (10+16+22+28+34+40+46+53) x 2	37.00	1502.39
1x5+ (10) x 2.2	9.40	72.65	1x6+ (11+17+23+29+35+40+46+52) x 2.2	41.20	1849.60
1x6+ (13) x 1.8	9.60	68.68	1x (tube 57x2.9) + (57+62+68) x 3.0	75.00	2488.00

*) The author reserves the right not to be responsible for the topicality, correctness, completeness or quality of the information provided

Butt welded cable cores with helically wounded layer wire around core ring. Ends of layers joined with brass sleeve.
inside diameter: on request \checkmark tolerance: \pm 0.5 mm for each diameter
flatness: max. 2.5 mm \checkmark concentricity: for ring diameter < 300mm: max 8 mm; for > 301mm: max 20mm
surface of spring steel layer wire in electro-plated copper, bronze or brass