

CABLE BEADS

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LET'S BEAD IT

Cable beads for High-Performance

technical data

- butt welded cable cores with helically wound layer wire around core ring.
Ends of layers joined with brass sleeve.
- inside diameter: on request
- tolerance: ± 0.5 mm for each diameter
- flatness: max. 2.5 mm
- concentricity: for ring diameter < 300mm: max 8 mm; for > 301mm: max 20mm
- surface of spring steel layer wire, coating in bronze or brass, availability depending on diameter

Fields of application

- passenger car tyres
- motorcycle tyres
- agricultural tyres
- air spring systems
- motorsports tyres
- truck tyres
- aircraft tyres
- other technical applications

Advices

up to 1000 mm, > 1000 mm

producibile from 66 to 2.000 mm ID

cross sections from 3 to 45 mm, > 45mm on request

sample constructions to be taken from PDF file

other constructions possible on demand

LET'S BEAD IT



OTTO KUHLMANN
Automotive System-Parts GmbH

Cable beads for High-Performance

Technical specification round cable beads of steel wire*

constructions	cross section diameter	minimum theoretical
[mm]	[mm]	breaking load [kN]

1x1.2+ (6) x 0.96	3.12	7.87
1x1.5+ (7) x 0.96	3.42	9.82
1x1.4+ (6) x 1.3	4.00	14.91
1x1.5+ (6) x 1.3	4.10	15.08
1x1.5+ (6) x 1.4	4.30	17.28
1x1.6+ (6) x 1.4	4.40	17.51
1x2.5+ (10) x 0.96	4.42	15.41
1x1.8+ (7) x 1.4	4.60	21.51
1x2.2+ (8) x 1.3	4.80	22.24
1x2.2+ (8) x 1.4	5.00	25.32
1x1.2+ (6+12) x 0.96	5.04	24.55
1x3+ (10) x 1.3	5.60	28.65
1x3+ (9) x 1.5	6.00	31.31
1x2.5+ (7) x 1.8	6.10	32.24
1x3+ (8) x 1.8	6.60	38.40
1x1.5+ (6+12) x 1.3	6.70	47.72
1x1.6+ (6+12) x 1.3	6.80	47.95
1x1.8+ (7+13) x 1.3	7.00	54.23
1x3+ (7) x 2	7.00	40.35
1x1.6+ (6+12) x 1.4	7.20	58.59
1x1.8+ (7+13) x 1.4	7.40	62.59
1x3+ (7) x 2.2	7.40	47.97
1x2+ (7+13) x 1.4	7.60	62.81
1x2.2+ (8+14) x 1.4	7.80	69.56
1x1.6+(6)x1.4+(10)x1.8	8.00	64.64
1x4+ (9) x 2	8.00	52.68
1x4+ (8) x 2.2	8.40	55.54
1x5+ (11) x 1.8	8.60	55.85
1x5+ (10) x 2	9.00	61.22
1x3+ (9+15) x 1.5	9.00	82.20
1x5+ (10) x 2.2	9.40	72.65
1x6+ (13) x 1.8	9,6	68,68
1x2.5+ (7+13) x 1.8	9.70	95.81

constructions	cross section diameter	minimum theoretical
[mm]	[mm]	breaking load [kN]

1x1.6+ (6+12+18) x 1.4	10.00	112.31
1x3+ (8+14) x 1.8	10.20	106.86
1x6+ (11) x 2.2	10.40	83.00
1x3+ (7+14) x 2	11.00	124.77
1x3+ (7+13) x 2.2	11.80	142.87
1x1.6+ (6+12+18+23) x 1.3	12.00	159.47
1x3+ (9+15+21) x 1.5	12.00	153.45
1x5+ (11+17) x 1.8	12.20	138.98
1x4+ (9+15) x 2.2	12.80	172.34
1x5+ (10+16) x 2	13.00	157.70
1x2.5+ (7+13+19) x 1.8	13.30	188.72
1x3+ (8+14+20) x 1.8	13.80	204.66
1x5+ (10+16) x 2.2	13.80	189.45
1x5+ (13+19+25) x 1.5	14.00	196.95
1x6+ (11+17) x 2.2	14.80	207.10
1x3+ (7+13+20) x 2	15.00	239.34
1x5+ (11+17+23) x 1.8	15.80	251.45
1x5+ (10+16+22) x 2	17.00	290.36
1x3+ (9+15+21+27) x 1.5	17.15	245.06
1x6+ (11+17+23) x 2	18.00	311.50
1x5+ (10+16+22) x 2.2	18.20	350.05
1x6+ (11+17+23) x 2.2	19.20	375.00
1x5+ (11+17+23+29) x 1.8	19.40	393.26
1x5+ (10+16+22+28) x 2	21.00	459.20
1x6+ (11+17+23+30) x 2	22.00	492.40
1x5+ (10+16+22+28) x 2.2	22.60	554.45
1x5+ (11+17+23+29+35) x 1.8	23.00	564.41
1x5+ (13+19+25+31+37+41) x 1.5	23.00	570.17
1x6+ (11+17+23+29) x 2.2	23.60	586.70
1x6+ (11+17+23+29+35) x 2	26.00	697.42
1x5+ (10+16+22+28+33) x 2.2	27.00	795.35
1x6+ (11+17+23+29+35) x 2.2	28.00	842.20
1x6+ (11+17+23+29+35+40) x 2.2	32.40	1134.20
1x6+ (11+17+23+29+34+39+45) x 2.2	36.80	1448.10
1x5+ (10+16+22+28+34+40+46+53) x 2	37.00	1502.39
1x6+ (11+17+23+29+35+40+46+52) x 2.2	41.20	1849.60