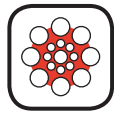


PROPERTIES



Plast rope



Compacted



Lubricated



No Swivel



Tolerance

APPLICATIONS

High breaking load and good resistance against crushing. Hoisting rope in multiple part reeving for smaller lifting heights as well as for twin hoist systems with left and right hand lay ropes for greater lifting heights.

OVERVIEW

| RCN | Diameter range [mm] | Number of outer strands | Number of wires | Number of outer load bearing wires | Average fill factor | Average weight factor | Average spin factor *N/mm ² |
|-----|---------------------|-------------------------|-----------------|------------------------------------|---------------------|-----------------------|---|
| 09 | 8 | 8 | 259 | 208 | | | |
| 09 | 9–24 | 8 | 319 | 208 | 0,664 | 0,87 | 0,87 (1770)* 0,86 (1960, 2160)* |
| 09 | 25–48 | 8 | 327 | 208 | | | |
| 11 | 50–72 | 8 | 367 | 248 | | | |

- Temperature range of use: –50°C to +115°C
- Suitable for multi-layer spooling in Lang's lay
- Available in ordinary lay and Lang's lay
- Available in right hand and left hand
- Available in galvanized and ungalvanized

| nominal diameter | metallic area | weight | calculated aggregate breaking force | | | | | | minimum breaking force | | | | | | | |
|------------------|-----------------|--------|-------------------------------------|---------------|------------------------|---------------|------------------------|---------------|------------------------|---------------|------------------------|---------------|------------------------|---------------|----|---------------|
| | | | 1770 N/mm ² | | 1960 N/mm ² | | 2160 N/mm ² | | 1770 N/mm ² | | 1960 N/mm ² | | 2160 N/mm ² | | | |
| mm | mm ² | kg/m | kN | t [metric] | kN | t [metric] | kN | t [metric] | kN | t [metric] | kN | t [metric] | kN | t [metric] | kN | t [metric] |
| 8 | 33,4 | 0,29 | 59,1 | 6,02 | 65,4 | 6,67 | 72,1 | 7,35 | 51,1 | 5,20 | 56,6 | 5,77 | 63,5 | 6,47 | | |
| 9 | 42,8 | 0,37 | 75,7 | 7,72 | 83,9 | 8,55 | 92,4 | 9,42 | 66,0 | 6,71 | 73,0 | 7,46 | 81,4 | 8,29 | | |
| 10 | 53,0 | 0,46 | 93,7 | 9,56 | 103,8 | 10,58 | 114,5 | 11,67 | 80,2 | 8,15 | 88,7 | 9,06 | 101,0 | 10,30 | | |
| 11 | 63,8 | 0,56 | 112,8 | 11,51 | 124,0 | 12,74 | 137,8 | 14,05 | 97,1 | 9,87 | 107,5 | 10,98 | 121,0 | 12,40 | | |
| 12 | 75,7 | 0,66 | 134,0 | 13,66 | 148,3 | 15,13 | 163,5 | 16,67 | 115,1 | 11,70 | 127,4 | 13,01 | 144,0 | 14,70 | | |
| 12,7 | 84,9 | 0,74 | 150,3 | 15,33 | 166,5 | 16,97 | 183,4 | 18,69 | 129,6 | 13,21 | 143,5 | 14,63 | 161,0 | 16,50 | | |
| 13 | 89,5 | 0,78 | 158,3 | 16,15 | 175,3 | 17,88 | 193,3 | 19,71 | 136,6 | 13,89 | 151,3 | 15,43 | 170,0 | 17,30 | | |
| 14 | 103,1 | 0,90 | 182,5 | 18,61 | 202,1 | 20,61 | 222,7 | 22,70 | 157,9 | 16,05 | 174,8 | 17,84 | 196,0 | 20,00 | | |
| 15 | 119,0 | 1,04 | 210,6 | 21,47 | 233,2 | 23,78 | 257,0 | 26,20 | 183,1 | 18,62 | 202,7 | 20,69 | 226,0 | 23,10 | | |
| 16 | 135,5 | 1,18 | 239,9 | 24,46 | 265,6 | 27,09 | 292,7 | 29,83 | 207,2 | 21,06 | 229,4 | 23,41 | 252,0 | 25,70 | | |
| 17 | 152,4 | 1,33 | 269,7 | 27,50 | 298,7 | 30,46 | 329,2 | 33,56 | 230,6 | 23,46 | 255,4 | 26,06 | 283,0 | 28,90 | | |
| 18 | 168,9 | 1,47 | 299,0 | 30,49 | 331,1 | 33,76 | 364,8 | 37,19 | 260,2 | 26,46 | 288,2 | 29,41 | 314,0 | 32,00 | | |
| 19 | 189,0 | 1,64 | 334,5 | 34,11 | 370,4 | 37,77 | 408,2 | 41,61 | 292,1 | 29,71 | 323,5 | 33,02 | 351,0 | 35,80 | | |
| 20 | 210,7 | 1,83 | 372,9 | 38,02 | 412,9 | 42,11 | 455,1 | 46,39 | 321,0 | 32,64 | 355,5 | 36,27 | 391,0 | 39,90 | | |
| 21 | 226,9 | 1,97 | 401,6 | 40,96 | 444,8 | 45,35 | 490,1 | 49,96 | 350,8 | 35,68 | 388,5 | 39,64 | 421,0 | 43,00 | | |
| 22 | 251,9 | 2,19 | 445,8 | 45,46 | 493,7 | 50,34 | 544,1 | 55,46 | 391,7 | 39,83 | 433,7 | 44,26 | 468,0 | 47,70 | | |
| 23 | 275,1 | 2,39 | 486,9 | 49,65 | 539,2 | 54,98 | 594,2 | 60,57 | 425,7 | 43,30 | 471,4 | 48,10 | 511,0 | 52,10 | | |
| 24 | 299,5 | 2,61 | 530,1 | 54,05 | 587,0 | 59,86 | 646,9 | 65,94 | 464,5 | 47,24 | 514,3 | 52,48 | 556,0 | 56,70 | | |
| 25 | 324,2 | 2,82 | 573,8 | 58,51 | 635,4 | 64,79 | 700,3 | 71,38 | 504,2 | 51,28 | 558,2 | 56,97 | 602,0 | 61,40 | | |
| 26 | 352,4 | 3,07 | 623,8 | 63,61 | 690,7 | 70,43 | 761,2 | 77,59 | 548,9 | 55,82 | 607,8 | 62,03 | 655,0 | 66,70 | | |
| 27 | 380,3 | 3,31 | 673,1 | 68,64 | 745,4 | 76,01 | 821,4 | 83,74 | 584,9 | 59,49 | 647,7 | 66,10 | 702,0 | 71,60 | | |
| 28 | 405,2 | 3,53 | 717,2 | 73,13 | 794,2 | 80,98 | 875,2 | 89,22 | 629,6 | 64,04 | 697,3 | 71,15 | 748,0 | 76,30 | | |
| 29 | 436,0 | 3,79 | 771,6 | 78,68 | 854,5 | 87,13 | 941,8 | 96,00 | 678,8 | 69,03 | 736,9 | 75,20 | 800,0 | 81,60 | | |
| 30 | 470,8 | 4,10 | 833,2 | 84,97 | 922,7 | 94,09 | 1016,9 | 103,66 | 727,1 | 73,94 | 789,3 | 80,54 | 864,0 | 88,10 | | |
| 31 | 502,3 | 4,37 | 889,1 | 90,67 | 984,6 | 100,40 | 1085,0 | 110,60 | 776,8 | 79,00 | 843,3 | 86,06 | 911,0 | 92,90 | | |
| 32 | 533,7 | 4,64 | 944,6 | 96,32 | 1046,0 | 106,66 | 1152,8 | 117,51 | 828,0 | 84,21 | 911,0 | 92,95 | 968,0 | 98,70 | | |
| 33 | 571,8 | 4,98 | 1012,1 | 103,20 | 1120,7 | 114,28 | 1235,1 | 125,90 | 875,2 | 89,00 | 950,1 | 96,95 | 1037,0 | 106,00 | | |
| 34 | 601,4 | 5,23 | 1064,4 | 108,54 | 1178,7 | 120,19 | 1299,0 | 132,42 | 936,4 | 95,23 | 1024,9 | 104,58 | 1091,0 | 111,00 | | |
| 36 | 670,5 | 5,83 | 1186,8 | 121,02 | 1314,2 | 134,02 | 1448,3 | 147,63 | 1040,1 | 105,77 | 1129,2 | 115,22 | 1217,0 | 124,00 | | |
| 38 | 753,1 | 6,55 | 1333,0 | 135,92 | 1476,0 | 150,51 | 1626,7 | 165,82 | 1163,0 | 118,27 | 1262,6 | 128,84 | 1366,0 | 139,00 | | |
| 40 | 837,9 | 7,29 | 1483,1 | 151,23 | 1642,3 | 167,47 | 1809,9 | 184,49 | 1285,5 | 130,72 | 1395,5 | 142,40 | 1520,0 | 155,00 | | |
| 42 | 914,7 | 7,96 | 1619,1 | 165,00 | 1792,9 | 182,82 | 1975,8 | 201,40 | 1422,0 | 144,61 | 1543,8 | 157,53 | 1660,0 | 169,00 | | |
| 44 | 1010,7 | 8,79 | 1788,9 | 182,41 | 1980,9 | 201,99 | 2183,1 | 222,54 | 1554,3 | 158,06 | 1687,4 | 172,18 | 1834,0 | 187,00 | | |
| 46 | 1102,4 | 9,59 | 1951,3 | 198,98 | 2160,7 | 220,33 | 2381,2 | 242,73 | 1713,0 | 174,21 | 1859,7 | 189,77 | 2000,0 | 204,00 | | |
| 48 | 1201,1 | 10,45 | 2125,9 | 216,78 | 2354,1 | 240,05 | 2594,4 | 264,46 | 1858,8 | 189,03 | 2018,0 | 205,92 | 2179,0 | 222,00 | | |
| 50 | 1303,7 | 10,95 | 2307,6 | 235,31 | 2555,3 | 260,57 | 2816,0 | 287,16 | 1986,0 | 202,52 | 2199,2 | 224,26 | 2423,6 | 247,14 | | |
| 52 | 1409,4 | 11,84 | 2494,6 | 254,38 | 2762,4 | 281,69 | 3044,3 | 310,43 | 2147,0 | 218,94 | 2377,4 | 242,43 | 2620,0 | 267,17 | | |
| 54 | 1520,0 | 12,77 | 2690,4 | 274,35 | 2979,2 | 303,80 | 3283,2 | 334,80 | 2316,2 | 236,19 | 2564,9 | 261,55 | 2826,0 | 288,17 | | |
| 56 | 1628,1 | 13,68 | 2881,7 | 293,86 | 3191,1 | 325,40 | 3516,7 | 358,60 | 2480,1 | 252,90 | 2746,4 | 280,06 | 3026,6 | 308,63 | | |
| 58 | 1739,3 | 14,61 | 3078,5 | 313,93 | 3409,0 | 347,62 | 3756,8 | 383,10 | 2649,5 | 270,18 | 2933,9 | 299,18 | 3233,3 | 329,71 | | |
| 60 | 1865,9 | 15,67 | 3302,6 | 336,78 | 3657,1 | 372,93 | 4030,3 | 410,98 | 2842,4 | 289,85 | 3147,5 | 320,96 | 3468,7 | 353,71 | | |
| 62 | 1994,2 | 16,75 | 3529,7 | 359,94 | 3908,6 | 398,57 | 4307,5 | 439,24 | 3037,9 | 309,78 | 3364,0 | 343,04 | 3707,2 | 378,03 | | |
| 64 | 2132,4 | 17,91 | 3774,3 | 384,87 | 4179,4 | 426,19 | 4605,9 | 469,68 | 3248,3 | 331,24 | 3597,0 | 366,80 | 3964,1 | 404,23 | | |
| 66 | 2272,3 | 19,09 | 4021,9 | 410,12 | 4453,6 | 454,15 | 4908,1 | 500,49 | 3461,4 | 352,97 | 3833,0 | 390,86 | 4224,1 | 430,74 | | |
| 68 | 2403,4 | 20,19 | 4254,0 | 433,79 | 4710,7 | 480,36 | 5191,3 | 529,38 | 3661,2 | 373,34 | 4054,2 | 413,42 | 4467,9 | 455,60 | | |
| 70 | 2537,6 | 21,32 | 4491,6 | 458,02 | 4973,8 | 507,19 | 5481,3 | 558,94 | 3865,7 | 394,20 | 4280,7 | 436,51 | 4717,5 | 481,06 | | |
| 72 | 2689,8 | 22,60 | 4761,0 | 485,49 | 5272,1 | 537,61 | 5810,1 | 592,47 | 4097,6 | 417,84 | 4537,4 | 462,69 | 5000,4 | 509,90 | | |

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