# GALVANIZED STEEL WIRE FOR WIRE ROPE

## Construction :


## Application :

Generally used in the manufacture of ropes for general applications, and also ropes for high duty applications.

## Technical Data :

Standard : According to BS EN 10264-2 : 2012,
BS EN 10264-3 : 2012

## Special Features Upon Request

**Minimum Mass of Coating**

| Nominal Diameter of Wire | Minimum Mass of Coating | | |
|---|---|---|---|
| | g/m² | | |
| mm | Class B | Class A | Class D |
| $0.50 \leq d < 0.60$ | 50 | 100 | 20 |
| $0.60 \leq d < 0.70$ | 60 | 115 | 20 |
| $0.70 \leq d < 0.80$ | 60 | 130 | 20 |
| $0.80 \leq d < 0.90$ | 70 | 145 | 20 |
| $0.90 \leq d < 1.00$ | 70 | 155 | 25 |
| $1.00 \leq d < 1.20$ | 80 | 165 | 25 |
| $1.20 \leq d < 1.40$ | 90 | 180 | 25 |
| $1.40 \leq d < 1.65$ | 100 | 195 | 30 |
| $1.65 \leq d < 1.85$ | 100 | 205 | 30 |
| $1.85 \leq d < 2.15$ | 115 | 215 | 40 |
| $2.15 \leq d < 2.50$ | 125 | 230 | 45 |
| $2.50 \leq d < 2.80$ | 125 | 245 | 45 |
| $2.80 \leq d < 3.20$ | 135 | 255 | 50 |
| $3.20 \leq d < 3.80$ | 135 | 265 | 60 |

**Tensile Strength Grade**

| Quality of Wire | | Nominal Tensile Strength Grade | | | |
|---|---|---|---|---|---|
| Round | Bright or Coated - Class B | 1570 | 1770 | 1960 | 2160 |
| | Zinc or Zn95/Al5 - Class A | 1570 | 1770 | - | - |



**Dimensional Tolerance on Round Wire Dia.**

| Nominal Diameter of Wire | Tolerance on Diameter | |
|---|---|---|
| | mm | |
| mm | Coating Class B | Coating Class A |
| $0.50 \leq d < 1.00$ | ±0.015 | ±0.030 |
| $1.00 \leq d < 1.65$ | ±0.020 | ±0.040 |
| $1.65 \leq d < 1.80$ | ±0.020 | ±0.050 |
| $1.80 \leq d < 2.05$ | ±0.025 | ±0.050 |
| $2.05 \leq d < 2.80$ | ±0.025 | ±0.060 |
| $2.80 \leq d < 4.00$ | ±0.030 | ±0.070 |

**Minimum Number of Torsions**

| Nominal Diameter of Wire | Number of Torsions (Times) | | | | | |
|---|---|---|---|---|---|---|
| | Tensile Strength Grade | | | | | |
| | Coating Class B | | | | Coating Class A | |
| mm | 1570 | 1770 | 1960 | 2160 | 1570 | 1770 |
| $0.5 \leq d < 1.0$ | 35 | 33 | 27 | 25 | 23 | 21 |
| $1.0 \leq d < 1.3$ | 33 | 31 | 26 | 24 | 21 | 19 |
| $1.3 \leq d < 1.8$ | 32 | 29 | 25 | 23 | 20 | 18 |
| $1.8 \leq d < 2.3$ | 30 | 28 | 23 | 21 | 19 | 16 |
| $2.3 \leq d < 3.0$ | 28 | 25 | 21 | 20 | 16 | 13 |
| $3.0 \leq d < 3.4$ | 26 | 23 | 20 | 19 | 13 | 10 |

| Nominal diameter $d$ of Wire | Diameter and Tolerance | | Minimum Number of Torsions (Times) Tensile Strength Grade | | | | | | | | | Weight of Zinc Coating | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | | Coating Class B | | | | | Coating Class A | | | | g/ m² | |
| mm | Class B | Class A | 1180 & 1370 | 1570 | 1770 | 1960 | 2160 | 1370 | 1570 | 1770 | 1960 | Class B | Class A |
| $0.25 \leq d < 0.30$ | ±0.008 | - | - | - | - | - | - | - | - | - | - | 30 | - |
| $0.30 \leq d < 0.40$ | ±0.010 | ±0.025 | - | - | - | - | - | - | - | - | - | 30 | - |
| $0.40 \leq d < 0.50$ | ±0.010 | ±0.025 | - | - | - | - | - | - | - | - | - | 40 | 85 |
| $0.50 \leq d < 0.55$ | ±0.015 | ±0.03 | 34 | 30 | 28 | 25 | 23 | - | - | - | - | 50 | 100 |
| $0.55 \leq d < 0.60$ | ±0.015 | ±0.03 | 34 | 30 | 28 | 25 | 23 | - | - | - | - | 50 | 100 |
| $0.60 \leq d < 0.65$ | ±0.015 | ±0.03 | 34 | 30 | 28 | 25 | 23 | - | - | - | - | 60 | 115 |
| $0.65 \leq d < 0.70$ | ±0.015 | ±0.03 | 34 | 30 | 28 | 25 | 23 | | - | - | - | 60 | 115 |
| $0.70 \leq d < 0.75$ | ±0.015 | ±0.03 | 34 | 30 | 28 | 25 | 23 | - | 21 | 19 | 17 | 60 | 130 |
| $0.75 \leq d < 0.80$ | ±0.015 | ±0.03 | 34 | 30 | 28 | 25 | 22 | - | 21 | 19 | 17 | 60 | 130 |
| $0.80 \leq d < 0.85$ | ±0.015 | ±0.03 | 34 | 30 | 28 | 25 | 22 | - | 21 | 19 | 17 | 70 | 145 |
| $0.85 \leq d < 0.90$ | ±0.015 | ±0.03 | 34 | 30 | 28 | 25 | 22 | - | 21 | 19 | 17 | 70 | 145 |
| $0.90 \leq d < 0.95$ | ±0.015 | ±0.03 | 34 | 30 | 28 | 25 | 22 | - | 21 | 19 | 17 | 70 | 155 |
| $0.95 \leq d < 1.00$ | ±0.015 | ±0.03 | 34 | 30 | 28 | 25 | 21 | - | 21 | 19 | 17 | 70 | 155 |
| $1.00 \leq d < 1.10$ | ±0.020 | ±0.04 | 33 | 29 | 26 | 23 | 21 | - | 20 | 18 | 13 | 80 | 165 |
| $1.10 \leq d < 1.20$ | ±0.020 | ±0.04 | 33 | 29 | 26 | 23 | 20 | - | 20 | 18 | 13 | 80 | 165 |
| $1.20 \leq d < 1.30$ | ±0.020 | ±0.04 | 33 | 28 | 25 | 22 | 19 | - | 18 | 15 | 10 | 90 | 180 |
| $1.30 \leq d < 1.40$ | ±0.020 | ±0.04 | 33 | 28 | 25 | 22 | 19 | - | 18 | 15 | 10 | 90 | 180 |
| $1.40 \leq d < 1.50$ | ±0.020 | ±0.04 | 33 | 28 | 25 | 22 | 19 | - | 18 | 15 | 10 | 100 | 195 |
| $1.50 \leq d < 1.60$ | ±0.020 | ±0.04 | 33 | 28 | 25 | 22 | 19 | - | 18 | 15 | 10 | 100 | 195 |
| $1.60 \leq d < 1.65$ | ±0.020 | ±0.04 | 33 | 28 | 25 | 22 | | - | 18 | 15 | 10 | 100 | 195 |

GALVANIZED STEEL WIRE FOR WIRE ROPE

| Nominal Diameter $d$ of Wire | Diameter and Tolerance | | Minimum Number of Torsions (Times) Tensile Strength Grade | | | | | | | | | Weight of Zinc Coating | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | | Coating Class B | | | | | Coating Class A | | | | g/ m² | |
| mm | Class B | Class A | 1180 & 1370 | 1570 | 1770 | 1960 | 2160 | 1370 | 1570 | 1770 | 1960 | Class B | Class A |
| $1.65 \leq d < 1.70$ | ±0.020 | ±0.04 | 33 | 28 | 25 | 22 | 19 | - | 18 | 15 | 10 | 100 | 205 |
| $1.70 \leq d < 1.80$ | ±0.020 | ±0.05 | 33 | 28 | 25 | 22 | 19 | - | 18 | 15 | 10 | 100 | 205 |
| $1.80 \leq d < 1.85$ | ±0.025 | ±0.05 | 32 | 27 | 24 | 21 | 18 | - | 17 | 14 | 9 | 100 | 205 |
| $1.85 \leq d < 1.90$ | ±0.025 | ±0.05 | 32 | 27 | 24 | 21 | 18 | - | 17 | 14 | 9 | 115 | 215 |
| $1.90 \leq d < 2.00$ | ±0.025 | ±0.05 | 32 | 27 | 24 | 21 | 18 | - | 17 | 14 | 9 | 115 | 215 |
| $2.00 \leq d < 2.10$ | ±0.025 | ±0.06 | 32 | 27 | 24 | 21 | 18 | - | 17 | 14 | 9 | 115 | 215 |
| $2.10 \leq d < 2.15$ | ±0.025 | ±0.06 | 32 | 27 | 24 | 21 | 18 | - | 17 | 14 | 9 | 115 | 215 |
| $2.15 \leq d < 2.20$ | ±0.025 | ±0.06 | 32 | 27 | 24 | 21 | 18 | - | 17 | 14 | 9 | 125 | 230 |
| $2.20 \leq d < 2.30$ | ±0.025 | ±0.06 | 31 | 27 | 24 | 21 | 18 | 20 | 17 | 14 | 9 | 125 | 230 |
| $2.30 \leq d < 2.40$ | ±0.025 | ±0.06 | 30 | 27 | 24 | 21 | 18 | 20 | 17 | 14 | 9 | 125 | 230 |
| $2.40 \leq d < 2.50$ | ±0.025 | ±0.06 | 29 | 26 | 23 | 20 | 18 | 19 | 15 | 12 | 7 | 125 | 230 |
| $2.50 \leq d < 2.60$ | ±0.025 | ±0.06 | 29 | 26 | 23 | 20 | 18 | 19 | 15 | 12 | 7 | 125 | 245 |
| $2.60 \leq d < 2.70$ | ±0.025 | ±0.06 | 29 | 26 | 23 | 20 | 18 | 19 | 15 | 12 | 7 | 125 | 245 |
| $2.70 \leq d < 2.80$ | ±0.025 | ±0.06 | 29 | 26 | 23 | 20 | 18 | 19 | 15 | 12 | 7 | 125 | 245 |
| $2.80 \leq d < 2.90$ | ±0.030 | ±0.07 | 28 | 26 | 23 | 20 | 18 | 18 | 15 | 12 | 7 | 135 | 255 |
| $2.90 \leq d < 3.00$ | ±0.030 | ±0.07 | 28 | 26 | 23 | 20 | 18 | 18 | 15 | 12 | 7 | 135 | 255 |
| $3.00 \leq d < 3.10$ | ±0.030 | ±0.07 | 27 | 25 | 21 | 18 | 16 | 18 | 12 | 8 | 5 | 135 | 255 |
| $3.10 \leq d < 3.20$ | ±0.030 | ±0.07 | 27 | 25 | 21 | 18 | 16 | 13 | 12 | 8 | 5 | 135 | 255 |
| $3.20 \leq d < 3.30$ | ±0.030 | ±0.07 | 27 | 25 | 21 | 18 | 16 | 13 | 12 | 8 | 5 | 135 | 265 |
| $3.30 \leq d < 3.40$ | ±0.030 | ±0.07 | 27 | 25 | 21 | 18 | 16 | 13 | 12 | 8 | 5 | 135 | 265 |

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