

# Lifting



OTHER SEGMENTS | LIFTING | JACKETED ROPES

## D-TECH WINCHLINE PLUS

With HMWPE Jacket

Made from HMWPE fibers and coated with a Pro-Tech self-unique impregnation that improves abrasion, heat resistance and fatigue properties. Cotesi D-Tech Winchline Plus must be considered when high breaking strengths are required. Stronger than steel wire ropes of the same weight, it has proven to be a cost-saving replacement in several applications. Double braided optimized construction to higher breaking loads, with a 12 strands HMWPE core and a 32 braids cover in HMWPE. Also available with PES & PE Jacket.



Jacketed Ropes

### Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Non-kinking and non-rotating
- Easy and safer handling

## D-Tech WINCHLINE

With HMWPE Jacket

Made from HMWPE fibers and coated with a Pro-Tech self-unique impregnation that improves its abrasion resistance and fatigue properties, Cotesi D-Tech Winchline must be considered when high breaking strengths are required. Stronger than steel wire ropes of the same weight, it has proven to be a cost-saving replacement in several applications. Double braided construction to higher breaking loads, with a 12 strands HMWPE core and a 32 braids cover in HMPE. Also available with PES & PE Jacket.



Jacketed Ropes

### Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Non-kinking and non-rotating
- Easy and safer handling

| Diameter |         | Size   | Weight |         |           | Breaking Load |         |       |
|----------|---------|--------|--------|---------|-----------|---------------|---------|-------|
|          |         | Circ.  |        |         |           |               |         |       |
| mm       | Inches  | Inches | Ktex   | Kg/100m | lbs/100ft | kgf           | lbf     | kN    |
| 24       | 1       | 3      | 310    | 31      | 20,8      | 33.141        | 73.062  | 325   |
| 30       | 1 1/4   | 3 3/4  | 500    | 50      | 33,6      | 64.956        | 143.201 | 637   |
| 32       | 1 5/16  | 4      | 640    | 64      | 43        | 75.051        | 165.457 | 736   |
| 34       | 1 11/32 | 4 1/4  | 680    | 68      | 45,7      | 84.025        | 185.240 | 824   |
| 36       | 1 1/2   | 4 1/2  | 720    | 72      | 48,4      | 92.998        | 205.023 | 912   |
| 38       | 1 9/16  | 4 3/4  | 800    | 80      | 53,8      | 101.972       | 224.806 | 1.000 |
| 40       | 1 5/8   | 5      | 900    | 90      | 60,5      | 116.248       | 256.279 | 1.140 |
| 44       | 1 3/4   | 5 1/2  | 1.110  | 111     | 74,6      | 140.721       | 310.232 | 1.380 |
| 48       | 2       | 6      | 1.320  | 132     | 88,7      | 164.175       | 361.938 | 1.610 |
| 52       | 2 1/8   | 6 1/4  | 1.500  | 150     | 100,8     | 195.786       | 431.628 | 1.920 |
| 56       | 2 1/4   | 7      | 1.765  | 176,5   | 118,6     | 230.457       | 508.062 | 2.260 |

More diameters available by demand.

- ☒ Raw Material: HMWPE
- ☒ Specific Gravity: 0,98
- ☒ Melting Point: 150°C
- ☒ Elongation at % of BS:  
25% .... 0,9%  
50% ....1,6%

### Applications



| Diameter |         | Size   | Weight |         |           | Breaking Load |         |       |
|----------|---------|--------|--------|---------|-----------|---------------|---------|-------|
|          |         | Circ.  |        |         |           |               |         |       |
| mm       | Inches  | Inches | Ktex   | Kg/100m | lbs/100ft | kgf           | lbf     | kN    |
| 24       | 1       | 3      | 360    | 36      | 24,2      | 38.749        | 85.426  | 380   |
| 30       | 1 1/4   | 3 3/4  | 425    | 42,5    | 28,6      | 45.887        | 101.163 | 450   |
| 32       | 1 1/3   | 4      | 474    | 47,4    | 31,9      | 53.025        | 116.899 | 520   |
| 34       | 1 11/32 | 4 1/4  | 544    | 54,4    | 36,6      | 61.183        | 134.884 | 600   |
| 36       | 1 1/2   | 4 1/2  | 637    | 63,7    | 42,8      | 69.341        | 152.868 | 680   |
| 38       | 1 4/7   | 4 3/4  | 706    | 70,6    | 47,4      | 78.518        | 173.101 | 770   |
| 40       | 1 5/8   | 5      | 765    | 76,5    | 51,4      | 88.716        | 195.581 | 870   |
| 44       | 1 3/4   | 5 1/2  | 963    | 96,3    | 64,7      | 106.051       | 233.798 | 1.040 |
| 48       | 2       | 6      | 1.100  | 110     | 73,9      | 128.485       | 283.256 | 1.260 |
| 52       | 2 1/8   | 6 1/4  | 1.380  | 138     | 92,7      | 148.879       | 328.217 | 1.460 |
| 56       | 2 1/4   | 7      | 1.575  | 157,5   | 105,8     | 173.352       | 383.170 | 1.700 |

More diameters available by demand.

- ☒ Raw Material: HMWPE
- ☒ Specific Gravity: 0,98
- ☒ Melting Point: 150°C
- ☒ Elongation at % of BS:  
25% .... 0,9%  
50% ....1,6%

### Applications



D-Tech WINCHLINE Plus

With Polyester Jacket

Made from HMWPE fibers and coated with a Pro-Tech self-unique impregnation that improves its abrasion resistance and fatigue properties, Cotesi D-Tech Winchline Plus must be considered when high breaking strengths are required. Stronger than steel wire ropes of the same weight, it has proven to be a cost-saving replacement in several applications. Double braided optimized construction to higher breaking loads, with a 12 strands HMWPE core and a 32 braids cover in Polyester. Also available with HMPE & PE jacket.



Jacketed Ropes

Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Non-kinking and non-rotating
- Easy and safer handling

D-Tech WINCHLINE

With Polyester Jacket

Made from HMWPE fibers and coated with a Pro-Tech self-unique impregnation that improves its abrasion resistance and fatigue properties. Cotesi D-Tech Winchline must be considered when high breaking strengths are required. Stronger than steel wire ropes of the same weight, it has proven to be a cost-saving replacement in several applications. Double braided construction to higher breaking loads, with a 12 strands HMWPE core and a 32 braids cover in Polyester. Also available with HMPE & PE jacket.



Jacketed Ropes

Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Non-kinking and non-rotating
- Easy and safer handling

| Diameter |         | Size   | Weight |         |           | Breaking Load |         |       |
|----------|---------|--------|--------|---------|-----------|---------------|---------|-------|
|          |         | Circ.  |        |         |           |               |         |       |
| mm       | Inches  | Inches | Ktex   | Kg/100m | lbs/100ft | kgf           | lbf     | kN    |
| 24       | 1       | 3      | 340    | 34      | 22,8      | 33.141        | 73.062  | 325   |
| 30       | 1 1/4   | 3 3/4  | 551    | 55,1    | 37        | 64.956        | 143.101 | 637   |
| 32       | 1 5/16  | 4      | 700    | 70      | 47        | 75.051        | 165.457 | 736   |
| 34       | 1 11/32 | 4 1/4  | 754    | 75,4    | 50,7      | 84.025        | 185.240 | 824   |
| 36       | 1 1/2   | 4 1/2  | 808    | 80,8    | 54,3      | 92.998        | 205.023 | 912   |
| 38       | 1 9/16  | 4 3/4  | 893    | 89,3    | 60        | 101.972       | 224.806 | 1.000 |
| 40       | 1 5/8   | 5      | 1.000  | 100     | 67,2      | 116.248       | 256.279 | 1.140 |
| 44       | 1 3/4   | 5 1/2  | 1.250  | 125     | 84        | 140.721       | 310.232 | 1.380 |
| 48       | 2       | 6      | 1.480  | 148     | 99,4      | 164.175       | 361.938 | 1.610 |
| 52       | 2 1/8   | 6 1/4  | 1.700  | 170     | 114,2     | 195.786       | 431.628 | 1.920 |
| 56       | 2 1/4   | 7      | 1.900  | 190     | 127,7     | 230.457       | 508.062 | 2.260 |

More diameters available by demand.

- ✔

Raw Material: HMWPE / Polyester
- ✔

Specific Gravity: 1,06
- ✔

Melting Point: 150°C / 265°C
- ✔

Elongation at % of BS:  
25% .... 0,9%  
50% ....1,6%

Applications



| Diameter |         | Size   | Weight |         |           | Breaking Load |         |       |
|----------|---------|--------|--------|---------|-----------|---------------|---------|-------|
|          |         | Circ.  |        |         |           |               |         |       |
| mm       | Inches  | Inches | Ktex   | Kg/100m | lbs/100ft | kgf           | lbf     | kN    |
| 24       | 1       | 3      | 409    | 40,9    | 35,6      | 38.749        | 85.426  | 380   |
| 30       | 1 1/4   | 3 3/4  | 489    | 48,9    | 42,6      | 45.887        | 101.163 | 450   |
| 32       | 1 1/3   | 4      | 508    | 50,8    | 44,2      | 53.025        | 116.899 | 520   |
| 34       | 1 11/32 | 4 1/4  | 581    | 58,1    | 50,6      | 61.183        | 134.884 | 600   |
| 36       | 1 1/2   | 4 1/2  | 682    | 68,2    | 59,4      | 69.341        | 152.868 | 680   |
| 38       | 1 4/7   | 4 3/4  | 750    | 75      | 65,3      | 78.518        | 173.101 | 770   |
| 40       | 1 5/8   | 5      | 800    | 80      | 69,6      | 88.716        | 195.581 | 870   |
| 44       | 1 3/4   | 5 1/2  | 1.009  | 100,9   | 87,8      | 106.051       | 233.798 | 1.040 |
| 48       | 2       | 6      | 1.183  | 118,3   | 103       | 128.485       | 283.256 | 1.260 |
| 52       | 2 1/8   | 6 1/4  | 1.465  | 146,5   | 127,5     | 148.879       | 328.217 | 1.460 |
| 56       | 2 1/4   | 7      | 1.675  | 167,5   | 145,8     | 173.352       | 382.170 | 1.700 |

More diameters available by demand.

- ✔

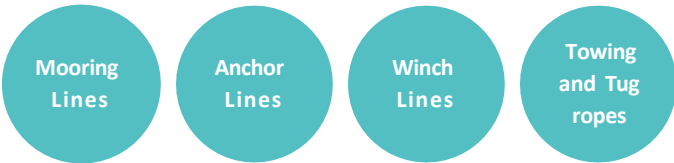
Raw Material: HMWPE / Polyester
- ✔

Specific Gravity: 1,06
- ✔

Melting Point: 150°C / 265°C
- ✔

Elongation at % of BS:  
25% .... 0,9%  
50% ....1,6%

Applications



D-Tech

Made from HMWPE fibers and protected by a self-unique impregnation that improves its abrasion resistance, Cotesi D-Tech ropes must be considered when high breaking strengths are required. Using a torque-free 12 strands braided construction, D-Tech is stronger than steel wire of the same weight and has proven to be a cost-saving replacement for wire rope in several applications, such as mooring, towing or lifting.



Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Flexible, non-kinking and non-rotating
- Easy and safer handling
- Easy to splice

Applications



| Diameter |         | Size   | Weight |         |           | Breaking Load |         |       |
|----------|---------|--------|--------|---------|-----------|---------------|---------|-------|
|          |         | Circ.  |        |         |           |               |         |       |
| mm       | Inches  | Inches | Ktex   | Kg/100m | lbs/100ft | kgf           | lbf     | kN    |
| 6        | 1/4     | 3/4    | 23     | 2,3     | 1,5       | 4.079         | 8.992   | 40    |
| 8        | 1/3     | 1      | 40     | 4       | 2,7       | 7.036         | 15.512  | 69    |
| 10       | 3/8     | 1 1/8  | 61     | 6,1     | 4,1       | 10.707        | 23.605  | 105   |
| 12       | 1/2     | 1 1/2  | 87     | 8,7     | 5,8       | 15.296        | 33.721  | 150   |
| 14       | 4/7     | 1 ¾    | 117    | 11,7    | 7,9       | 20.394        | 44.961  | 200   |
| 16       | 5/8     | 2      | 152    | 15,2    | 10,2      | 26.003        | 57.326  | 255   |
| 18       | 3/4     | 2 1/4  | 190    | 19      | 12,8      | 32.121        | 70.814  | 315   |
| 20       | 13/16   | 2 1/2  | 233    | 23,3    | 15,7      | 38.749        | 85.426  | 380   |
| 22       | 7/8     | 2 3/4  | 280    | 28      | 18,8      | 45.887        | 101.163 | 450   |
| 24       | 1       | 3      | 331    | 33,1    | 22,2      | 53.025        | 116.899 | 520   |
| 26       | 1 1/32  | 3 1/4  | 386    | 38,6    | 25,9      | 61.183        | 134.884 | 600   |
| 28       | 1 1/8   | 3 1/2  | 445    | 44,5    | 29,9      | 69.851        | 153.992 | 685   |
| 30       | 1 1/4   | 3 3/4  | 508    | 50,8    | 34,1      | 79.028        | 174.225 | 775   |
| 32       | 1 5/16  | 4      | 575    | 57,5    | 38,6      | 88.206        | 194.457 | 865   |
| 34       | 1 11/32 | 4 1/4  | 646    | 64,6    | 43,4      | 98.403        | 216.938 | 965   |
| 36       | 1 1/2   | 4 1/2  | 722    | 72,2    | 48,5      | 109.110       | 240.542 | 1.070 |
| 38       | 1 9/16  | 4 3/4  | 801    | 80,1    | 53,6      | 119.817       | 264.147 | 1.175 |
| 40       | 1 5/8   | 5      | 884    | 88,4    | 59,4      | 131.034       | 288.876 | 1.285 |
| 44       | 1 3/4   | 5 1/2  | 1.062  | 106,2   | 71,4      | 155.507       | 342.829 | 1.525 |
| 48       | 2       | 6      | 1.255  | 125,5   | 84,3      | 181.000       | 300.031 | 1.775 |
| 52       | 2 1/8   | 6 1/2  | 1.464  | 146,4   | 98,4      | 208.533       | 459.728 | 2.045 |
| 56       | 2 1/4   | 7      | 1.688  | 168,8   | 113,4     | 237.595       | 523.798 | 2.330 |
| 60       | 2 1/2   | 7 1/2  | 1.928  | 192,8   | 129,6     | 268.696       | 592.364 | 2.635 |
| 64       | 2 5/8   | 8      | 2.183  | 218,3   | 146,7     | 300.817       | 663.178 | 2.950 |
| 68       | 2 3/4   | 8 1/2  | 2.453  | 245,3   | 164,8     | 334.978       | 738.488 | 3.285 |
| 72       | 2 7/8   | 9      | 2.738  | 273,8   | 184       | 370.668       | 817.170 | 3.635 |

More diameters available by demand.

In accordance to ISO 10325:2018.  
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ✔

Raw Material: HMWPE
- ✔

Specific Gravity: 0,98
- ✔

Melting Point: 150°C
- ✔

Elongation at % of BS:  
25% .... 0,9%  
50% .... 1,6%

H-Force

Made from HMWPE fibers and protected by a self-unique Pro-Tech impregnation that improves its abrasion resistance. Using a torque-free 12 strands braided construction, H-Force is stronger than steel wire of the same weight and is a cost-saving replacement for wire rope and other conventional HMWPE ropes in several applications.



Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Flexible, non-kinking and non-rotating
- Easy and safer handling
- Easy to splice

Applications



| Diameter |         | Size Circ. | Weight |         |           | Breaking Load |         |       |
|----------|---------|------------|--------|---------|-----------|---------------|---------|-------|
| mm       | Inches  | Inches     | Ktex   | Kg/100m | lbs/100ft | kgf           | lbf     | kN    |
| 6        | 1/4     | 3/4        | 23     | 2,3     | 1,5       | 4.079         | 8.992   | 40    |
| 8        | 1/3     | 1          | 40     | 4       | 2,7       | 7.036         | 15.512  | 69    |
| 10       | 3/8     | 1 1/8      | 61     | 6,1     | 4,1       | 10.707        | 23.605  | 105   |
| 12       | 1/2     | 1 1/2      | 87     | 8,7     | 5,8       | 15.296        | 33.721  | 150   |
| 14       | 4/7     | 1 ¾        | 117    | 11,7    | 7,9       | 20.394        | 44.961  | 200   |
| 16       | 5/8     | 2          | 152    | 15,2    | 10,2      | 26.003        | 57.326  | 255   |
| 18       | 3/4     | 2 1/4      | 190    | 19      | 12,8      | 32.121        | 70.814  | 315   |
| 20       | 13/16   | 2 1/2      | 233    | 23,3    | 15,7      | 38.749        | 85.426  | 380   |
| 22       | 7/8     | 2 3/4      | 280    | 28      | 18,8      | 45.887        | 101.163 | 450   |
| 24       | 1       | 3          | 331    | 33,1    | 22,2      | 53.025        | 116.899 | 520   |
| 26       | 1 1/32  | 3 1/4      | 386    | 38,6    | 25,9      | 61.183        | 134.884 | 600   |
| 28       | 1 1/8   | 3 1/2      | 445    | 44,5    | 29,9      | 69.851        | 153.992 | 685   |
| 30       | 1 1/4   | 3 3/4      | 508    | 50,8    | 34,1      | 79.028        | 174.225 | 775   |
| 32       | 1 5/16  | 4          | 575    | 57,5    | 38,6      | 88.206        | 194.457 | 865   |
| 34       | 1 11/32 | 4 1/4      | 646    | 64,6    | 43,4      | 98.403        | 216.938 | 965   |
| 36       | 1 1/2   | 4 1/2      | 722    | 72,2    | 48,5      | 109.110       | 240.542 | 1.070 |
| 38       | 1 9/16  | 4 3/4      | 801    | 80,1    | 53,6      | 119.817       | 264.147 | 1.175 |
| 40       | 1 5/8   | 5          | 884    | 88,4    | 59,4      | 131.034       | 288.876 | 1.285 |
| 44       | 1 3/4   | 5 1/2      | 1.062  | 106,2   | 71,4      | 155.507       | 342.829 | 1.525 |
| 48       | 2       | 6          | 1.255  | 125,5   | 84,3      | 181.000       | 300.031 | 1.775 |
| 52       | 2 1/8   | 6 1/2      | 1.464  | 146,4   | 98,4      | 208.533       | 459.728 | 2.045 |
| 56       | 2 1/4   | 7          | 1.688  | 168,8   | 113,4     | 237.595       | 523.798 | 2.330 |
| 60       | 2 1/2   | 7 1/2      | 1.928  | 192,8   | 129,6     | 268.696       | 592.364 | 2.635 |
| 64       | 2 5/8   | 8          | 2.183  | 218,3   | 146,7     | 300.817       | 663.178 | 2.950 |
| 68       | 2 3/4   | 8 1/2      | 2.453  | 245,3   | 164,8     | 334.978       | 738.488 | 3.285 |
| 72       | 2 7/8   | 9          | 2.738  | 273,8   | 184       | 370.668       | 817.170 | 3.635 |

More diameters available by demand.

In accordance to ISO 10325:2018.  
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ☒ Raw Material: HMWPE
- ☒ Specific Gravity: 0,98
- ☒ Melting Point: 150°C
- ☒ Elongation at % of BS:  
25% .... 0,9%
- ☒ 50% .... 1,6%

D-Tech

Made from HMWPE fibers and protected by a self-unique impregnation that improves its abrasion resistance, Cotesi D-Tech ropes must be considered when high breaking strengths are required. Stronger than steel wire of the same weight, it has proven to be a cost-saving replacement for wire rope in several applications. Its 8 strands plaited construction is smooth and non-rotational.



Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Non-kinking and non-rotating
- Easy and safer handling
- Very easy to splice

Applications



| Diameter |         | Size Circ. | Weight |         |           | Breaking Load |           |        |
|----------|---------|------------|--------|---------|-----------|---------------|-----------|--------|
| mm       | Inches  | Inches     | Ktex   | Kg/100m | lbs/100ft | kgf           | lbf       | kN     |
| 24       | 1       | 3          | 331    | 33,1    | 22,2      | 53.025        | 116.899   | 520    |
| 26       | 1 1/32  | 3 1/4      | 386    | 38,6    | 25,9      | 61.183        | 134.884   | 600    |
| 28       | 1 1/8   | 3 1/2      | 445    | 44,5    | 29,9      | 69.851        | 153.992   | 685    |
| 30       | 1 1/4   | 3 3/4      | 508    | 50,8    | 34,1      | 79.028        | 174.225   | 775    |
| 32       | 1 5/16  | 4          | 575    | 57,5    | 38,6      | 88.206        | 194.457   | 865    |
| 34       | 1 11/32 | 4 1/4      | 646    | 64,6    | 43,4      | 98.403        | 216.938   | 965    |
| 36       | 1 1/2   | 4 1/2      | 722    | 72,2    | 48,5      | 109.110       | 240.542   | 1.070  |
| 38       | 1 9/16  | 4 3/4      | 801    | 80,1    | 53,8      | 119.817       | 264.147   | 1.175  |
| 40       | 1 5/8   | 5          | 884    | 88,4    | 59,4      | 131.034       | 288.876   | 1.285  |
| 44       | 1 3/4   | 5 1/2      | 1.062  | 106,2   | 71,4      | 155.507       | 342.829   | 1.525  |
| 48       | 2       | 6          | 1.255  | 125,5   | 84,3      | 181.000       | 399.031   | 1.775  |
| 52       | 2 1/8   | 6 1/2      | 1.464  | 146,4   | 98,4      | 208.533       | 459.728   | 2.045  |
| 56       | 2 1/4   | 7          | 1.688  | 168,8   | 113,4     | 237.595       | 523.798   | 2.330  |
| 60       | 2 1/2   | 7 1/2      | 1.928  | 192,8   | 129,6     | 268.696       | 592.364   | 2.635  |
| 64       | 2 5/8   | 8          | 2.183  | 218,3   | 146,7     | 300.817       | 663.178   | 2.950  |
| 68       | 2 3/4   | 8 1/2      | 2.453  | 245,3   | 164,8     | 334.978       | 738.488   | 3.285  |
| 72       | 2 7/8   | 9          | 2.738  | 273,8   | 184       | 370.668       | 817.170   | 3.635  |
| 76       | 3       | 9 3/8      | 3.038  | 303,8   | 204,1     | 407.888       | 899.224   | 4.000  |
| 80       | 3 1/4   | 10         | 3.353  | 335,3   | 225,3     | 446.128       | 983.526   | 4.375  |
| 88       | 3 5/8   | 11         | 4.028  | 402,8   | 270,7     | 528.215       | 1.164.495 | 5.180  |
| 96       | 4       | 12         | 4.762  | 476,2   | 320       | 615.911       | 1.357.828 | 6.040  |
| 104      | 4 1/4   | 13         | 5.555  | 555,5   | 373,3     | 709.725       | 1.564.650 | 6.960  |
| 112      | 4 5/8   | 14         | 6.406  | 640,6   | 430,5     | 809.148       | 1.783.836 | 7.935  |
| 120      | 5       | 15         | 7.316  | 731,6   | 491,6     | 913.669       | 2.014.262 | 8.960  |
| 128      | 5 1/4   | 16         | 8.233  | 823,3   | 553,2     | 1.024.309     | 2.258.176 | 10.045 |
| 136      | 5 1/2   | 17         | 9.308  | 930,8   | 625,5     | 1.140.047     | 2.513.331 | 11.180 |

More diameters available by demand.

In accordance to ISO 10325:2018.  
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ☒ Raw Material: HMWPE
- ☒ Specific Gravity: 0,98
- ☒ Melting Point: 150°C
- ☒ Elongation at % of BS:  
25% .... 0,9%
- ☒ 50% .... 1,6%