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## 1. Product description

It specifies the properties of unalloyed carbon steel wires, coated with zinc or zinc alloy, used in the manufacture of underground fixed energy or telecommunication cables.

## 2. Normative references

- EN 10257-1 Zinc or zinc alloy coated non-alloy steel wire for armouring either power cables or telecommunication cables - Part 1: Land cables
- EN 10244 – 2 - Steel wire and wire products. Non-ferrous metallic coatings on steel wire. Zinc or zinc alloy coatings
- EN 10218-2 - Steel wire and wire products-General-Part 2: Wire dimensions and tolerances

## 3. Mechanical Properties

Diameter	Tolerance	Tensile strength	Elongation	Torsion
0,90 mm	± 0,035	320-500 N/mm <sup>2</sup>	7,5%	33
1,25 mm	± 0,040		10%	24
1,60 mm	± 0,045		10%	37
2,00 mm	± 0,050		10%	30
2,50 mm	± 0,060		10%	24
3,15 mm	± 0,070		10%	19
4,00 mm	± 0,070		10%	15

Diameter	Resistance (Ω/km)	Conductivity (m/Ω.mm <sup>2</sup> )
0,90 mm	max. 216,92	min. 7,25
1,25 mm	max. 112,45	
1,60 mm	max. 68,64	
2,00 mm	max. 43,93	
2,50 mm	max. 28,11	
3,15 mm	max. 17,71	
4,00 mm	max. 10,98	

## 4. Chemical Properties

The chemical properties of the supplied raw materials according to ISO 16120-2 are given in the table.

Quality	( C )	( Mn )	( Si )	( P )	( S )
C7D	0,05-0,09	0,30-0,60	max. 0,30	max. 0,035	max. 0,035

## 5. Inspection Document

Inspection document 3.1 – EN 10204 on request.

## 6. Packaging Forms

Package dimensions for rosetten coils

Wire Diameter (mm)	Package Weight (kg)	Inner Diameter (cm)	Outer Diameter (cm)
0,65 ≤ d ≤ 0,80	50 - 75	25	45
0,80 < d ≤ 1,60	250	33	57
0,80 < d ≤ 1,60	250 - 500	35	65
1,00 ≤ d < 6,00	500 - 750 - 900	45	75

Packages with an inner diameter of 35 cm are sent with a carrier only.