

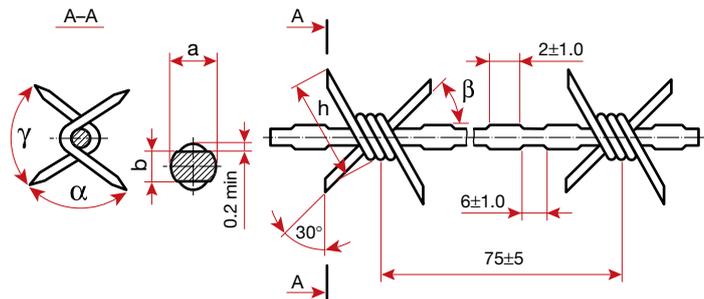
Mono-basic barbed wire

GOST¹⁾ 285-69



Application area:

The wire is intended for fencing manufacture of different types. The wire is made from low-carbon steel. The wire is corrosion-resistant due to zinc coating with passivating layer. Barbed wire structure is given on the drawing.



Note: angles α , β and γ – not less than 30°
 dimension a not less than 2.8 mm
 b not less than 2.3 mm
 h not less than 17 mm

Zinc surface density should meet the requirements given in Table 10.

Zinc surface density

Table 10.

Wire component	Diameter, mm	Zinc surface density, g/mm ² , not less than
		1 class
Line	2.8	70
Barb	2.0	50

Packing:

Shipped in bundles of a weight of up to 35 kg.

¹⁾ GOST = Russian State Standard

Di-basic barbed wire

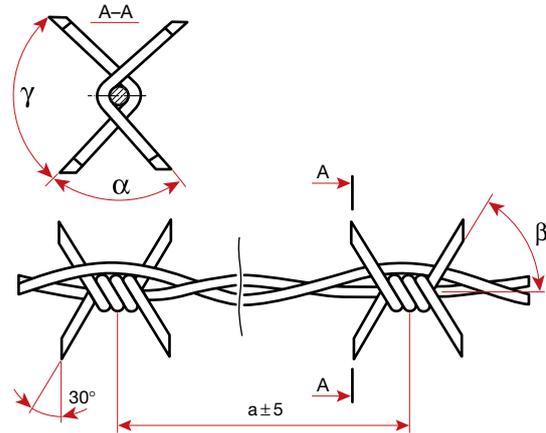
TU¹⁾ 14-178-276-95

Application area:

The wire is intended for fencing and impediments manufacture for construction and military aims.

The barbed wire consists of two twisted strands (line wire) with two or four barbs set at equal distances (see drawing).

Geometrics of the di-basic barbed wire are given in Table 11.



Note: angles α , β and γ – not less than 30°

Di-basic barbed wire geometrics

Table 11.

Barbed wire component parameter	Parameter value
Line wire diameter, mm	2.0; 2.2; 2.5; 2.7; 2.8
Barbing wire diameter, mm	1.8; 2.0
Distance between barbs, mm, not less than	75; 100; 125; 150
Barb length, mm, not less than	13
Barbs fold angle, degree	not less than 30

The line wire is made from heat-treated wire GOST 3282-74 with a tensile strength not less than 350 N/mm^2 , with or without zinc coating. The line wire withstands not less than five twists of 180° .

The barbing wire is made from non-heat-treated wire GOST 3282-74 with a tensile strength not exceeding 1180 N/mm^2 , with or without zinc coating. Barb turning is possible, but not exceeding 30° . The wire is wound round the base with $1 \frac{3}{4}$ or $2 \frac{1}{4}$ turns. Zinc surface density of line and barbing wire is not less than 50 g/m^2 , the wire is dipped at least once, with a dipping duration of 60 seconds.

¹⁾ TU = Technical Specification

Steel grades and chemical composition of medium- and high-carbon steels

Table 1.

Standard (GOST ¹⁾ , TU ²⁾	Steel grade	Elements, percent (%), by mass							
		C	Mn	Si	P	S	Cr	Ni	Cu
				not exceeding					
GOST 1050-88	35	0.32–0.40	0.30–0.60	0.17–0.37	0.035	0.040	0.25	0.15	0.20
	45	0.42–0.50							
	50	0.47–0.55							
	55	0.52–0.60							
	20	0.17–0.24	0.35–0.65						
TU 14-1-5317-95	60	0.57–0.65	0.40–0.70	0.370 (high-quality rope) 0.450 (quality rope)	0.025 (high-quality rope) 0.030 (quality rope)	0.025 (high-quality rope) 0.030 (quality rope)	0.10	0.10	0.10 (high-quality rope) 0.15 (quality rope)
	65	0.62–0.70							
	70	0.67–0.75							
	75	0.72–0.80							
	80	0.77–0.85							
	85	0.82–0.90							
GOST 10702-78	10	0.07–0.14	0.30–0.60	0.20	0.035	0.040	0.15	0.15	0.20
	15	0.12–0.19					0.25		
	20–45	0.17–0.50	not exc. 0.60						
GOST 14959-79	65G	0.62–0.70	0.90–1.20	0.17–0.37	0.025 (high-quality rope) 0.035 (quality rope)	0.025 (high-quality rope) 0.035 (quality rope)	0.25	0.25	0.20
	65–85	0.62–0.90	0.50–0.80	0.17–0.37					
GOST 10543-98	30XGSA	0.25–0.35	0.80–0.12	0.80–0.12	0.025	0.025	0.80–0.12	0.40	0.20
GOST 1435-99 commission goods	U7A	0.65–0.74	0.17–0.28	0.17–0.33	0.025	0.018	0.20–0.40	0.25	0.25
	U8A	0.75–0.84							
	U9A	0.85–0.94							
	U10A	0.95–1.04							

¹⁾ GOST = Russian State Standard

²⁾ TU = Technical Specification