

1 Bead Wire

1.1 General Characteristics

1.1.1 Raw material: wire rod

Bead wire is a hard-drawn high carbon wire made from quality steel rods. Wire rod feedstock is systematically rated for its quality level and performance.

Average steel composition:

<i>Tensile</i>	<i>Normal</i>	<i>High</i>
Carbon	0.725%	0.825 %
Manganese	0.550 %	0.520 %
Silicon	0.250 %	0.230 %
Sulphur	0.015 %	0.008 %
Phosphorus	0.015 %	0.010 %

Traces of copper, chromium and nickel.

1.1.2 Tolerances on diameter

± 0.02 mm if $\varnothing < 2.00$ mm

± 0.03 mm if $\varnothing \geq 2.00$ mm

1.1.3 Elongation at break

Min. 5 %, total elongation for round bead wire.

Elongation < 2% is available on request.

Bekaert standards for Bead Wire coating in grams per kilogram			
wire diameter	Bronze	Brass1	Brass2
0.890	0.30/0.65		
0.965	0.30/0.65		
1.295	0.20/0.60	0.30/0.60	0.40/0.80
1.420	0.15/0.45	0.30/0.60	0.40/0.80
1.550	0.15/0.45	0.20/0.50	0.30/0.70
1.600	0.15/0.45	0.20/0.50	0.30/0.70
1.820	0.15/0.45	0.20/0.50	0.30/0.70
2.000	0.10/0.30	0.20/0.40	0.25/0.55
2.200	0.10/0.30	0.20/0.40	0.25/0.55

%Sn: max. 3 %
%Cu: 72% +/- 5%