



TABLE 1 Breaking Strength Requirements

Wire Grade	Nominal Diameter		Breaking Strength		Nominal Area ^A		Nominal Mass (Weight),	
	mm	(in.)	kN	(lbf)	mm ²	(in. ²)	g/m	(lb/1000 ft)
1720 (250)	5.03	(0.198)	34.3	(7700)	19.86	(0.0308)	155.9	(104.8)
1790 (260)	5.5	(0.216)	42.6	(9570)	23.7	(0.0368)	187.4	(126.0)

^A The nominal cross-sectional area is based on the nominal diameter. The actual area in mm² (in.²) may be calculated by dividing the mass (weight) per linear millimetre (in.) of the specimen in kg (lb) by 7.850 x 10⁻⁶ kg/mm³ (mass of 1 mm³ of steel) (0.2836 (weight of 1 in.³ of steel)). The amount of variation is dependent on the shape and character of the deformations.

TABLE 2 Limits of Relaxation^A

Maximum Percentage Relaxation of 1000h from a
Minimum Initial Stress of

	70 % of Minimum Tensile Strength	80 % of Minimum Tensile Strength
Low –relaxation stress-relieved wire	2.5	3.5

^A The relaxation losses are not to exceed the limits specified in Table 2.

TABLE 3 Dimensions of Deformations

NOTE 1: Depth of indent shall be the average depth of six or more random indents measured at maximum depth.

Nominal Wire Diameter,		Depth, A,		Nominal Length, L,		Nominal Pitch, P,	
mm	(in.)	mm	(in.)	mm	(in.)	mm	(in.)
5.03	(0.198)	0.13 + 0.02, -0.05 (0.005 + 0.001, -0.002)		3.5	(0.138)	5.5	(0.217)
5.5	(0.216)	0.13 + 0.02, -0.05 (0.005 + 0.001, -0.002)		3.5	(0.138)	5.5	(0.217)