



High tensile bridge and deepwater cables demand consistent quality wire rod with a high strength-to-weight ratio.

Savings in weight and cost are critical to the design and construction of cable supported bridges and deepwater mooring cables.

High tensile steels

The enhanced strength-to-weight ratio of our high tensile steel rod enables cross-sections to be reduced and delivers:

- Reduced cable and superstructure weight (including cable bands, clamps, hanger cables and saddles)
- Reduced cable installation and spinning time
- Reduced construction programme
- Overall project cost savings

Rigorous testing for quality assurance

The quality of our products is assured by rigorous testing procedures conducted in well-equipped laboratories to verify stringent criteria such as segregation, steel cleanliness, scale, surface quality, decarburisation, chemical composition, size, shape and tensile strength properties. Our products meet the required standards for the most challenging and safety-critical applications.

British Steel is accredited to both ISO 9001:2015 for our quality management system and ISO 14001:2004 for our environmental management system.

Delivering quality

Despatch of wire rod coils through our purpose-built wire rod service centre or Automated Coil Warehouse allows British Steel to offer an efficient delivery service. These streamlined despatch facilities are equipped with bespoke handling equipment which, combined with minimal handling and an anti-abrasive flooring system, minimises storage and handling damage.

Technical support from our specialists

Our team of experienced metallurgists provides dedicated technical support to our customers, including selection of the most appropriate steel grade and size, detailed metallurgical analysis to solve specific processing problems, and the development of new and more advanced grades of steel for increasingly demanding applications.

Wire rod dimensions

Rod diameter	5.5 - 15.0mm in 0.5mm increments
Coil weight	1800 - 2200kg
Coil length	1350 - 1700mm
Coil dimensions	Outside diameter: 1250mm max Inside diameter: 850mm min

High tensile steel grades

The table below indicates typical as rolled tensiles, other grades can be considered upon request.

Steel grades

Grade	Typical Carbon %	Significant alloys	Typical Tensile Strength in 12mm as rolled rod (N/mm ²)	Typical Reduction of Area (%)
M83B	0.8	V	1180	≥30
M85B	0.83	V	1220	≥30
M90B	0.88	V	1260	≥25
X85Cr	0.83	Cr	1200	≥30
X95Cr	0.93	Cr	1220	≥25
M94Si	0.92	Si, Cr	1370	≥25

BRITISHSTEEL.CO.UK

A | PO Box 1, Brigg Road, Scunthorpe, North Lincolnshire, DN16 1BP
T | +44 (0)1724 402582 E | wirerod@britishsteel.co.uk

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