

DRAW WIRE - PLAITED WIRE ROPE



DRAW WIRE (PWR)

Andromeda's Plaited Wire Rope (PWR) is crafted from high tensile wire strands, arranged in a specific four by three sinnet plait configuration. In this design, four sets of three strands each are intertwined using a specialized machine called an Orbital Square Plaiter. With six right laid and six left laid strands, this material maintains torsional equilibrium when under load, creating a non-rotating rope without torque bias throughout its service life.

The strands typically follow a 1 x 19 construction pattern (12 outer, 6 middle, 1 core), offering excellent flexibility and resistance to abrasion. These strands are composed of high tensile wires with a grade of 2070 MPa, providing a high strength-to-weight ratio and fatigue resistance suitable for various applications.



Visual display to show the configuration of PWR

Plaited Wire Rope Applications:

- This product has a variety of uses. One common application is as a Pulling-In Rope during power line construction. It is essential for drawing the conductors into place, earning it the nickname "Draw Wire." Due to the need for long assemblies (sometimes up to 6000 meters connected), the anti-spin characteristic of this material is crucial.
- "Pulling-In Rope" is frequently utilized in underground electrical mains and distribution systems within large buildings or industrial sites. Although shorter lengths are employed, the non-slip feature allows for easy handling on and off storage reels, making it user-friendly during operations.

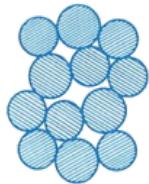
Sizes Available:

Crafted on-site at Andromeda using special machines created by the founder Raymond McLaren.

(PWR) is available in 10mm, 13mm, and 16mm options.



PHYSICAL SPECIFICATIONS - standard size range



ANDROMEDA PLAITED WIRE ROPE 2070 MPa

Nominal diameter (mm)	Number and diameter of strands	Mass per hundred meters (Kg)	Standard maximum length (m)	Listed strength	
				kN	Tonnes
10	12 x 2.3	31	3500	61.6	6.3
13	12 x 2.8	51	2600	88.6	9.0
16	12 x 3.5	78	1600	136	13.8

Please be advised that the list above represents a standard size range, and we typically maintain stock of these standard sizes. Other sizes can be produced upon request.

Testing:

Every Andromeda Rope undergoes two routine tests:

- Prior to the plaiting process, each feedstock strand is destruction tested to ensure that the break force surpasses the specified minimum outlined in Specification No.
- After completion, a sample from each batch of rope is destruct tested to verify that the break force exceeds the stated strength in the provided specifications. The test certificate displays comprehensive information about the rope, such as its unique serial number and actual break force. Purchasers can obtain copies of this test certificate.