Cenelectrex®

Cen-Stat™ Cables

High performance anti-static cables for use with Cenelectrex ATEX Approved Clamps

Cenelectrex ATEX Approved Clamps and Cen-Stat anti-static Hytrel coated cables are designed to enable the user to achieve an effective connection to portable / mobile items of plant, in order to safely dissipate static electricity.

Cen-Stat cables feature multi-stranded conductors for superior mechanical strength and anti-static Hytrel coating for optimum chemical and abrasion resistance.

All Cenelectrex clamps and Cen-Stat cables may be supplied as fitted and tested assemblies or purchased separately for self-assembly.

Cen-Stat cables are available in spiral form, with lengths ranging from 3 to 15 metres extension and straight form in any length up to 500 metres.

They are coloured green for European coding, orange for North America or blue for use with Intrinsically Safe monitoring devices, in accordance with IEC60446.

The blue cables are generally supplied with a pair of conductors to provide an earthing and monitoring loop, but are also available with a single conductor for monitoring an item that is already earthed.

Stainless Steel Heavy Duty Clamp with 5m Cen-Stat Green spiral cable VESX90/G03

Hard Anodised REB Plier Clamp with 3m Cen-Stat Orange spiral cable VESX41/G09-U

Stainless Steel Dual Circuit Clamp with 10m Cen-Stat Blue spiral cable VESC01/G12

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Cen-Stat™

Why use Cen-Stat Cables?

- Anti-static properties prevent the build up of charge on the surface of an insulating material. Cen-Stat cables with anti-static Hytrel coating conform to ASTM D257-99.
- Spiral cable retracts when not in use (1:10 extension ratio) and has superior shape and flexibility retention: proven to hold its shape after at least 20,000 continuous extensions.
- Green, Orange or Blue cables with a single conductor feature a multi-stranded galvanised steel core conductor for superior mechanical strength and very low electrical resistance, meeting the requirements of Cenelec 50404 and NFPA 77.
- Blue cables with a pair of conductors feature multi-stranded copper conductors with double protective sheaths for superior mechanical strength and very low electrical resistance, meeting the requirements of Cenelec 50404 and NFPA 77.
- Proven to have superior chemical and abrasion resistance. Tested against 174 different chemicals and resistant to hydrolysis.
- Suitable for use in all weather conditions and a wide range of ambient temperatures (minus 40° C to plus 80° C).
- Ideal for many different applications including chemical, petro-chemical, pharmaceutical, off-shore and other process industries.

Designed in accordance with…

CLC/TR 50404 (static control code of practice: Europe)

11.4.1 - Cables for earthing movable items should be equipped with a strong clamp capable of penetrating through paint or rust layers. Earthing devices…..should be robust.

11.2.2 - What is most important… is that all connections are reliable… and not subject to deterioration.

NFPA77 (static control standard: USA)

6.4.1.4 - Where wire conductors are used, the minimum size of the bonding or grounding wire is dictated by mechanical strength, not by its current carrying capacity. Stranded or braided wires should be used for bonding wires that will be connected and disconnected frequently.

Cen-Stat Earthing and Bonding Cables, available as follows:

			Conductor Cross-sectional Area (mm^2)	Outside Diameter of Cable (mm)
Green	1 Core Spiral Cable	3, 5, 10 or 15 metres working length (extended)	4.0	7.0
Orange	1 Core Spiral Cable	3, 5, 10 or 15 metres working length (extended)	4.0	7.0
Blue	1 Core Spiral Cable	5 or 10 metres working length (extended)	4.0	7.0
Blue	2 Core Spiral Cable	3, 5, 10, 15 or 30 metres working length (extended)	2 x 1.0	8.0
Green	1 Core Straight Cable	Length prepared to order (maximum 500 metres)	4.0	7.0
Orange	1 Core Straight Cable	Length prepared to order (maximum 500 metres)	4.0	7.0
Blue	1 Core Straight Cable	Length prepared to order (maximum 500 metres)	4.0	7.0
Blue	2 Core Straight Cable	Length prepared to order (maximum 500 metres)	2 x 1.0	8.0

Clamp and Cable Assemblies

Cen-Stat cables with a single conductor (1 Core) are normally supplied fitted with an ATEX Approved earthing clamp from the Cenelectrex range* and a 10mm ring terminal (lug) at the free end. Other ring terminal options available from stock include 6mm, 8mm and 12mm along with 9.6mm (3/8") and 12.7mm (1/2") Stainless Steel Ring Terminals available at extra cost, which includes specialist fitting.

*See Clamps and Cables data sheet and the Cenelectrex catalogue.

Cen-Stat Blue cables with a pair of conductors (2 Core) are normally supplied as part of a Cenelectrex Earth-Rite System, Bond-Rite or as a system accessory, fitted with an ATEX Approved Clamp or suitable connector from the Cenelectrex range** and the free end cores left unterminated.

Cen-Stat cables ordered without any clamps fitted are normally supplied with the free ends unterminated, unless specified otherwise. Ring terminals are available separately, if required.

**See System Accessories data sheet and the Cenelectrex catalogue.

All Cenelectrex earthing and bonding cables and reels continue to meet the requirements of international guidelines. Cen-Stat anti-static Hytrel coated cables are an enhancement to this existing range.

Cenelectrex is a registered trade mark and Cen-Stat is a trademark of Newson Gale Ltd.

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