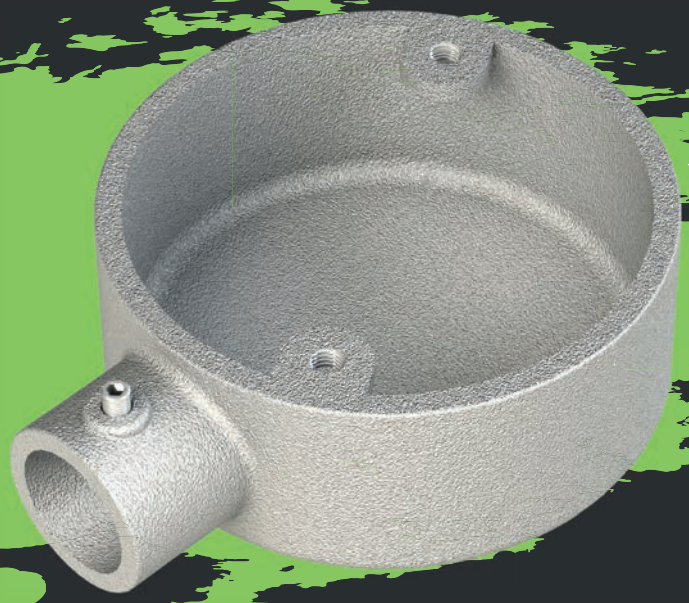

# CONLOK

Traditional. **Upgraded.**

## Technical Submission


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DEMON CAT

A metpro Group Brand

**Innovation & Excellence in Manufacturing**

The Conlok Conduit System:

# BS EN 61386-1:2008+A1:2019
# BS EN 61386-21:2021+A11:2021

## Declaration of Conformity

Demon Cato (part of Metpro Group Limited) declare under sole responsibility that: Conlok Malleable Boxes & Accessories are produced to BS EN 61386-21:2021+A11:2021 (Conduit Systems for Cable Management) and comply with the requirements of Class 4 corrosion resistance. With reference to Earthing & Bonding, Conlok has been tested in accordance with the method required in Clause 11.2 of the above standard and indeed passed with a resistance no greater than 0.1 ohm.

In accordance with - The Low Voltage Directive 2014/35EU.

**Relevant SKUs**

**Conlok Malleable Boxes**

Terminal

| Size | Code | Pack |
|---|---|---|
| 20mm | CL1G | 10 |
| 25mm | CL8G | 10 |

Through

| Size | Code | Pack |
|---|---|---|
| 20mm | CL2G | 10 |
| 25mm | CL9G | 10 |

Angle

| Size | Code | Pack |
|---|---|---|
| 20mm | CL3G | 10 |
| 25mm | CL10G | 10 |

Tee

| Size | Code | Pack |
|---|---|---|
| 20mm | CL4G | 10 |
| 25mm | CL11G | 10 |

Intersection

| Size | Code | Pack |
|---|---|---|
| 20mm | CL5G | 10 |
| 25mm | CL12G | 10 |

Branch U

| Size | Code | Pack |
|---|---|---|
| 20mm | CL6G | 10 |
| 25mm | CL13G | 10 |

Branch Y

| Size | Code | Pack |
|---|---|---|
| 20mm | CL7G | 10 |
| 25mm | CL14G | 10 |

Terminal c/w 25mm Hole in Base

| Size | Code | Pack |
|---|---|---|
| 20mm | CL15G | 10 |

Terminal Back Outlet

| Size | Code | Pack |
|---|---|---|
| 20mm | CL16G | 10 |

## Conlok Accessories

Solid Coupler

| Size | Code | Pack |
|---|---|---|
| 20mm | CL20GC | 40 |
| 25mm | CL25GC | 30 |

Flanged Coupler

| Size | Code | Pack |
|---|---|---|
| 20mm | CL20FC | 25 |
| 25mm | CL25FC | 25 |

Adaptor

| Size | Code | Pack |
|---|---|---|
| 20mm | CL20GA | 40 |
| 25mm | CL25GA | 30 |

Solid Bend

| Size | Code | Pack |
|---|---|---|
| 20mm | CL20MB | 20 |
| 25mm | CL25MB | 10 |

Signed on behalf of Demon Cato
A Metpro Group Brand

**Mr M Holmes**
**Product & Vendor Development Manager**

Date of Issue

25th January 2022

# Threaded Grub Screw
## Torque Test

DEMON CATO
A metpro Group Brand

Metpro Group Limited
Unit 4 Summit Crescent
Smethwick
West MIdlands
B66 1BT

T: 0121 552 2100
E: sales@metpro.co.uk
W: metpro.co.uk

### Threaded Grub Screw Torque Test

M4 Grub Screws used in the Conlok range of products meet the requirement of 1.2Nm of torque, as set out in BS EN 61386-21:2021+A11:2021, applied using a suitable torque screwdriver or wrench, applying a torque of 1.2Nm without sudden and jerky movements.

After the test, there shall be no damage sustained by the screw or nut such as breakage of the screw or damage to the thread that will impair further use of the screw or nut.

**Testing Tool**

Teng 1492SD Torque Screwdriver with a torque range of 1-5Nm.

| Products Tested | Torque Specified | Torque Achieved | Result |
|---|---|---|---|
| 1. Conlok Galvanised End Box | 1.2Nm | 2.0Nm | Pass |
| 1. Conlok Galvanised End Box | 1.2Nm | 2.0Nm | Pass |
| 1. Conlok Galvanised End Box | 1.2Nm | 2.0Nm | Pass |
| 1. Conlok Galvanised End Box | 1.2Nm | 2.0Nm | Pass |
| 1. Conlok Galvanised Angle Box | 1.2Nm | 2.0Nm | Pass |
| 1. Conlok Galvanised Angle Box | 1.2Nm | 2.0Nm | Pass |
| 1. Conlok Galvanised Angle Box | 1.2Nm | 2.0Nm | Pass |
| 1. Conlok Galvanised Angle Box | 1.2Nm | 2.0Nm | Pass |
| 1. Conlok Galvanised Coupler | 1.2Nm | 2.0Nm | Pass |
| 1. Conlok Galvanised Coupler | 1.2Nm | 2.0Nm | Pass |

**Date Tested**

11th November 2008

Signed on behalf of Demon Cato: .....

Mr. Michael Holmes
Product & Vendor Development Manager

# FAQs

### What British Standard does the Conlok system comply with?

Conlok complies with BSEN61386-21:2021+A11:2021, the same standard as traditional steel conduit systems.

### Why aren't Conlok boxes shiny like your standard malleable boxes?

Our standard boxes are hot dip galvanised before threads are cut into each spout.

The process of cutting threads strips away the protective galvanising coating leaving these areas exposed to potential rust and decay. In order to mitigate this, we took the decision to apply a further zinc coating on these areas, in order to provide extra corrosion resistance and ensure the threads are not hampered. With Conlok products not requiring the need for threads, they simply do not need this additional finish meaning they are the only fully galvanised system on the market.

### Does Conlok comply to the British Standard for earth continuity?

Yes. All Conlok products fully comply to the relevant standard and indeed exceeded the requirements.

### Are there any vibration issues with Conlok grub screws coming loose?

No. Conlok grub screws are manufactured from 12.9 Grade steel with a cup pointed screw, designed to 'bite' through the galvanising and into steel conduit lengths.

### What strength do Conlok grub screw's have to attach to steel conduit?

Conlok grub screws achieved a mass of 450N over a 48 hour period, confirming they are more than capable of carrying out the task at hand.

### Is Conlok suitable for external use?

Yes. Conlok is suitable for external applications however the use of CT1 Mastic Sealant around spouts is recommended for high rainfall areas.

### Do Demon Cato supply male & female Conlok adaptors?

No. Demon Cato manufacture a dedicated female adaptor only. However, with the addition of a standard conduit nipple, Conlok female adaptors can be used as male adaptors.

### How do you know if an electrician has tightened the grub screw?

If necessary, each Conlok box or accessory can be marked using an indellible marker, as would be done with a distribution breaker, to show it has been installed & tightended.

### Are Conlok products on Luckins?

Yes. Our full product offering is available to view on the Luckins Database.

### Do I need an online account to access Demon Cato data sheets and BIM files online?

No. To make things as simple as possible, all our data sheets and BIM Revit files are available for download without the need for an account at **www.metpro.co.uk**.

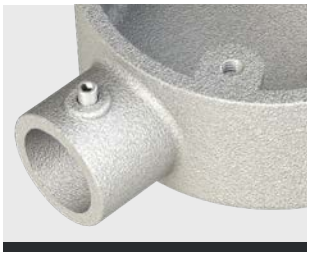
# CONLOK

Traditional. **Upgraded.**

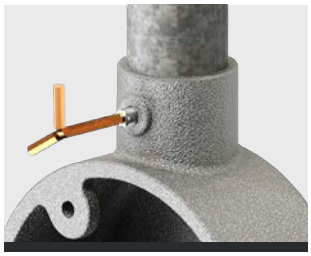
## Up to **75%** Labour Savings

## The Highlights

**No need to thread conduit tube**
With Conlok's unique built-in grub screw



**Fully galvanised system**
Offering greater corrosion resistance



**Fast-fix solution**
Ideal for major projects where cost & safety are critical

**Full range of accessories**
All of the essential items for quick installations

Increased on-site safety

Compliant to the latest standards

Reduced on-site storage

Used on major UK projects

Manufactured from malleable iron with a hot dip galvanised finish (bespoke clean room finish also available - please contact us for more information)

Conforms to BS EN 61386-1:2008+A1:2019 (Conduit Systems for Cable Management)

Conforms to BS EN 61386-21:2021+A11:2021 (Conduit Systems for Cable Management - Rigid Conduit Systems)

Manufactured in accordance with the Low Voltage Directive 2014/35/EU

Conlok grub screws are manufactured from Grade 12.9 Steel

Unthreaded spouts offer enhanced corrosion resistance against more traditional products

# Where Conlok is installed

A small selection of major UK projects using Conlok

**Sir Chris Hoy Velodrome,**
Glasgow

**Tesco Extra,**
Middlesbrough

**BBC Fire & Security,**
Derby

**HMP Sites;**
West Lothian
Aberdeen
Bedford
Addiewell

**Edinburgh Airport,**
Edinburgh

**Kendrew Barracks,**
Oakham

**Pure Gym,**
Bath Spa

**Proctor & Gamble,**
Manchester

**Amazon,**
Dublin

**Tees Rep Biomass Power Station,**
Glasgow

**Heathrow T2,**
Heathrow

**Wellington Barracks,**
Oakham

**MOD Bicester,**
Oxfordshire

DEMON CAT
STEEL CONDUIT SYSTEM

SEVEN YEAR
EXTENDED WARRANTY
AVAILABLE

Contact us to
find out more

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