



Copper tube I/D 1.73mm
 Copper tube O/D 3.4mm
 Test cable 0.5mm² (16/0.2mm) Tri-rated cable to BS 6231
 Crimp tool - Cablecraft Pt N° RTB-510
 Crimp die - Cablecraft Pt N° RQ 0560/3480-86006, 0.5-1.5mm sq cavity, terminal crimp height 1.65mm
 Initial volt drop across joint with 2A dc test current 0.00046v typical
 Initial resistance across joint = 230 $\mu\Omega$ typical
 Initial cable resistance of twice the length of the compression barrel = 544 $\mu\Omega$ (volt drop test pass)
 Minimum pull force required to meet electrical installation standard BS EN 60352-2-2006 = 60 Newtons
 Minimum pull force required to meet London Underground Engineering Rail Standard E 6487 A2 = 75 Newtons
 Pull force achieved = 113 Newtons typical (pass on both standards)

Comments: There is a brazed seam opposite the indent. The volume of wall thickness was generous relative to the terminal cross sectional area. Indentor is to be positioned on the under side of the terminal. Use hand tool go/no go gauge number 111900.

Applicable terminal part numbers:

CR1-2	CR1-3.5L	CR1-5
CR1-3	CR1-4	CR1-6
CR1-3.5	CR1-4L	CR1-8

Test equipment used:

Solartron 7071 computing voltmeter
 Farnell AP 20-80 regulated power supply

Mecmesin Multitest Tensometer 0-5 KN

Test cable suppliers:
 Eland Cables Limited



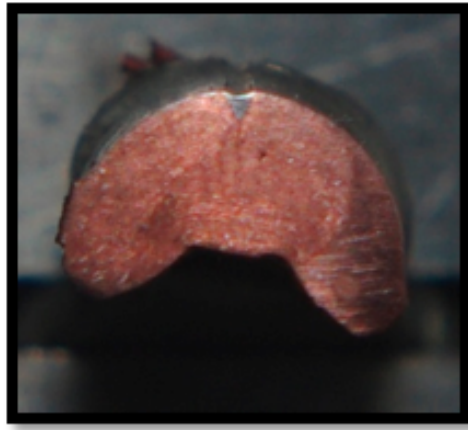
Independent testing carried out by Orrconnect Limited
 September 2014



Cablecraft House, Circle Business Centre, Blackburn Road, Houghton-Regis, Bedfordshire, LU5 5DD.
 Phone: 01582 606033 • Fax: 01582 606063 • Email: sales@cablecraft.co.uk • Web: www.cablecraft.co.uk

VAT NO. GB 639 920 900 • CO. REG. NO. 2478297





Copper tube I/D 1.73mm

Copper tube O/D 3.4mm

Test cable 0.75mm² (24/0.2mm) Tri-rated cable to BS 6231

Crimp tool - Cablecraft Pt N° RTB-510

Crimp die - Cablecraft Pt N° RQ 0560/3480-86006, 0.5-1.5mm sq cavity, terminal crimp height 1.65mm

Initial volt drop across joint with 2A dc test current 0.00023v typical

Initial resistance across joint = 115 $\mu\Omega$ typical

Initial cable resistance of twice the length of the compression barrel = 424 $\mu\Omega$ (volt drop test pass)

Minimum pull force required to meet electrical installation standard BS EN 60352-2-2006 = 85 Newtons

Minimum pull force required to meet London Underground Engineering Rail Standard E 6487 A2 = 115 Newtons

Pull force achieved = 171 Newtons typical (pass on both standards)

Comments: There is a brazed seam opposite the indent. The volume of wall thickness was generous relative to the terminal cross sectional area. Indentor is to be positioned on the under side of the terminal. Use hand tool go/no go gauge number 111900.

Applicable terminal part numbers:

CR1-2	CR1-3.5L	CR1-5
CR1-3	CR1-4	CR1-6
CR1-3.5	CR1-4L	CR1-8

Test equipment used:

Solartron 7071 computing voltmeter

Farnell AP 20-80 regulated power supply

Mecmesin Multitest Tensometer 0-5 KN

Test cable suppliers:

Eland Cables Limited

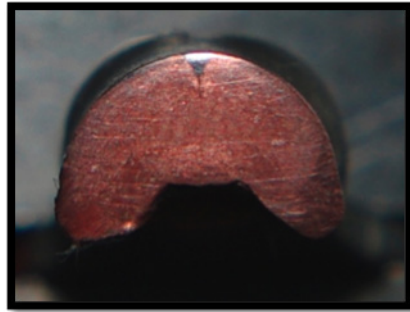


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Copper tube I/D 1.7mm
 Copper tube O/D 3.4mm
 Test cable 1mm² (32/0.2mm) Tri-rated cable to BS 6231
 Crimp tool - Cablecraft Pt N° RTB-510
 Crimp die - Cablecraft Pt N° RQ 0560/3480-86006, 0.5-1.5mm sq cavity, terminal crimp height 1.65mm
 Initial volt drop across joint with 2A dc test current 0.00025v typical
 Initial resistance across joint = 125 $\mu\Omega$ typical
 Initial cable resistance of twice the length of the compression barrel = 319 $\mu\Omega$ (volt drop test pass)
 Minimum pull force required to meet electrical installation standard BS EN 60352-2-2006 = 108 Newtons
 Minimum pull force required to meet London Underground Engineering Rail Standard E 6487 A2 = 150 Newtons
 Pull force achieved = 221 Newtons typical (pass on both standards)

Comments: There is a brazed seam opposite the indent. The volume of wall thickness was generous relative to the terminal cross sectional area. Indentor is to be positioned on the under side of the terminal. Use hand tool go/no go gauge number 111900.

Applicable terminal part numbers:

CR1-2	CR1-3.5L	CR1-5
CR1-3	CR1-4	CR1-6
CR1-3.5	CR1-4L	CR1-8

Test equipment used:

Solartron 7071 computing voltmeter
 Farnell AP 20-80 regulated power supply

Mecmesin Multitest Tensometer 0-5 KN

Test cable suppliers:
 Eland Cables Limited



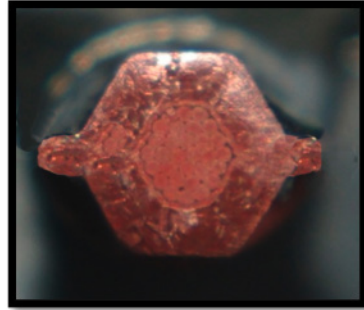
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Copper tube I/D 1.9mm

Copper tube O/D 3.6mm

Test cable 1.5mm² (30/0.25mm) Tri-rated cable to BS 6231

Crimp tool - Cablecraft Pt N° RTB-510

Crimp die - Cablecraft Pt N° RK 1060, hexagon size 2.8mm A/F (measure crimped terminal top to bottom)

Initial volt drop across joint with 6A dc test current 0.00046v typical

Initial resistance across joint = 77 $\mu\Omega$ typical

Initial cable resistance of twice the length of the compression barrel = 247 $\mu\Omega$ (volt drop test pass)

Minimum pull force required to meet electrical installation standard BS EN 60352-2-2006 = 150 Newtons

Minimum pull force required to meet London Underground Engineering Rail Standard E 6487 A2 = 220 Newtons

Pull force achieved = 267 Newtons typical (pass on both standards)

Comments: The volume of wall thickness was generous relative to the terminal cross sectional area. There is a noticeable amount of flash after crimping. Indentor is to be positioned on the under side of the terminal. Use hand tool go/no go gauge number 111900.

Applicable terminal part numbers:

CCT1.5-3HD

CCT1.5-4HD

CCT1.5-5HD

Test equipment used:

Solartron 7071 computing voltmeter

Farnell AP 20-80 regulated power supply

Mecmesin Multitest Tensometer 0-5 KN

Test cable suppliers:

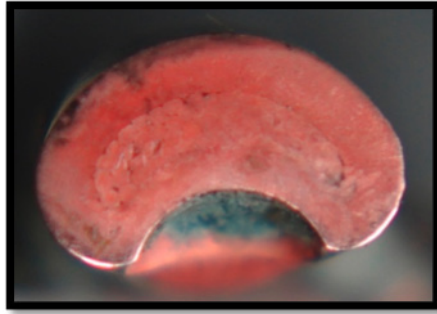
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Independent testing carried out by Orrconnect Limited
September 2014



Crimp Section Photo



Copper tube I/D 2.8mm

Copper tube O/D 4.7mm

Test cable 4mm² (56/0.3mm) Tri-rated cable to BS 6231

Crimp tool - Cablecraft Pt N° Rennsteig PEW 9.32 marked 6190323

Crimp die - Cablecraft Pt N° built in die, third cavity in from the tip of the tool, crimp height 2.35mm

Initial volt drop across joint with 6A dc test current 0.00031v typical

Initial resistance across joint = 51 $\mu\Omega$ typical

Initial cable resistance of twice the length of the compression barrel = 122 $\mu\Omega$ (volt drop test pass)

Minimum pull force required to meet electrical installation standard BS EN 60352-2-2006 = 310 Newtons

Minimum pull force required to meet London Underground Engineering Rail Standard E 6487 A2 = 590 Newtons

Pull force achieved = 803 Newtons typical (pass on both standards)

Comments: The volume of wall thickness was generous relative to the terminal cross sectional area. Indentor is to be positioned on the under side of the terminal.

Applicable terminal part numbers:

CCT4-4HD

CCT4-5HD

CCT4-6HD

Test equipment used:

Solartron 7071 computing voltmeter

Farnell AP 20-80 regulated power supply

Mecmesin Multitest Tensometer 0-5 KN

Test cable suppliers:

Eland Cables Limited



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