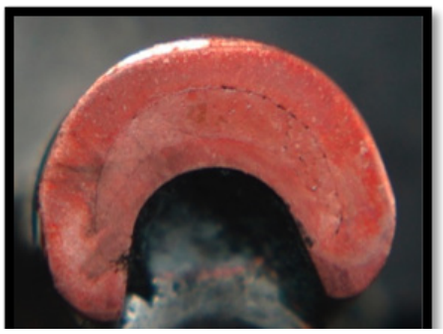
Crimp Section Photo



Copper tube I/D 3.4mm
Copper tube O/D 5.3mm
Test cable 6mm² (84/0.3mm) Tri-rated cable to BS 6231
Crimp tool - Cablecraft Pt Nº Rennsteig PEW 9.32 marked 6190323
Crimp die - Cablecraft Pt Nº 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 0.00021v typical
Initial resistance across joint = 35 µΩ typical
Initial cable resistance of twice the length of the compression barrel = 87.6 µΩ (volt drop test pass)
Minimum pull force required to meet electrical installation standard BS EN 60352-2-2006 = 360 Newtons
Minimum pull force required to meet London Underground Engineering Rail Standard E 6487 A2 = 700 Newtons
Pull force achieved = 1129 Newtons typical (pass on both standards)

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

Applicable terminal part numbers:

CCT6-4HD	CCT6-5HD	CCT6-6HD
CCT6-8HD	CT6-10HD	

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

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Cablecraft House, Circle Business Centre, Blackburn Road, Houghton-Regis, Bedfordshire, LU5 5DD.
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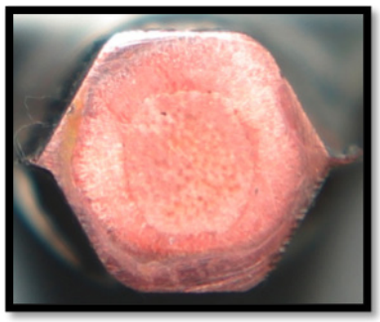
Crimp Test Specification Sheet | Cablecraft 10mm² HD Range

Crimp Section Photo



Copper tube I/D 4.4mm
Copper tube O/D 6.9mm
Test cable 10mm² (80/0.4mm) Tri-rated cable to BS 6231
Crimp tool - Cablecraft Pt Nº CHT 185
Crimp die - Cablecraft Pt Nº CHT 185HD 120-10 (BDS 120-10), hexagon size 5.6mm A/F
Initial volt drop across joint with 40A dc test current 0.00178v typical
Initial resistance across joint = 44.5 μΩ typical
Initial cable resistance of twice the length of the compression barrel = 73.6 μΩ (volt drop test pass)
Minimum pull force required to meet electrical installation standard BS EN 60352-2-2006 = 380 Newtons
Minimum pull force required to meet London Underground Engineering Rail Standard E 6487 A2 = 1160 Newtons
Pull force achieved = 1822 Newtons typical (pass on both standards)

Comments: The volume of wall thickness was generous relative to the terminal cross sectional area and the hexagon size was well matched to the volume of material to be crimped also resulting in minimal compression flash. These terminals require a single crimp.

Applicable terminal part numbers:

CCT10-5HD	CCT10-6HD	CCT10-8HD
CCT10-10HD	CCT10-12HD	

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

NB: BS 4579 Pt 1 states, "For all cable sizes above 10mm² the value of resistance of any joint shall not exceed the resistance of a length of conductor equal to twice the length of the compression barrel".

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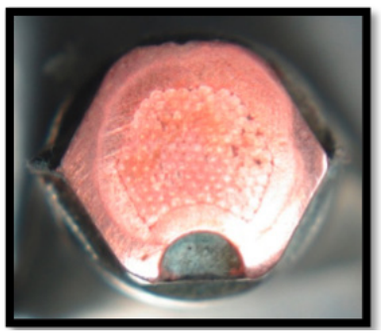
Crimp Test Specification Sheet | Cablecraft 16mm² HD Range

Crimp Section Photo



Copper tube I/D 5.6mm
Copper tube O/D 8mm
Test cable 16mm² (126/0.4mm) Tri-rated cable to BS 6231
Crimp tool - Cablecraft Pt Nº CHT 185
Crimp die - Cablecraft Pt Nº CHT 185HD 95-16 (BDS 95-16), hexagon size 6.5mm A/F, 5.71mm to indentor
Initial volt drop across joint with 40A dc test current 0.001187v typical
Initial resistance across joint = 29.6 μΩ typical
Initial cable resistance of twice the length of the compression barrel = 50 μΩ (volt drop test pass)
Minimum pull force required to meet electrical installation standard BS EN 60352-2-2006 = 960 Newtons
Minimum pull force required to meet London Underground Engineering Rail Standard E 6487 A2 = 1850 Newtons
Pull force achieved = 2175 Newtons typical (pass on both standards)

Comments: The volume of wall thickness was generous relative to the terminal cross sectional area and the hexagon size was well matched to the volume of material to be crimped also resulting in minimal compression flash. These terminals require a single crimp. Indentor is to be positioned on the under side of the terminal.

Applicable terminal part numbers:

CCT16-5HD	CCT16-6HD	CCT16-8HD
CCT16-10HD	CCT16-12HD	

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

NB: BS 4579 Pt 1 states, "For all cable sizes above 10mm² the value of resistance of any joint shall not exceed the resistance of a length of conductor equal to twice the length of the compression barrel".

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Crimp Test Specification Sheet | Cablecraft 25mm² HD Range

Crimp Section Photo

Copper tube I/D 7mm
Copper tube O/D 9.5mm
Test cable 25mm² (196/0.4mm) Tri-rated cable to BS 6231
Crimp tool - Cablecraft Pt Nº CHT 185
Crimp die - Cablecraft Pt Nº CHT 185HD 70-25 (BDS 70-25), hexagon size 7.85mm A/F, 6.1mm to indentor
Initial volt drop across joint with 40A dc test current 0.00073v typical
Initial resistance across joint = 18.2 µΩ typical
Initial cable resistance of twice the length of the compression barrel = 26.9 µΩ (volt drop test pass)
Minimum pull force required to meet electrical installation standard BS EN 60352-2-2006 = 1500 Newtons
Minimum pull force required to meet London Underground Engineering Rail Standard E 6487 A2 = 2900 Newtons
Pull force achieved = 3413 Newtons typical (pass on both standards)

Comments: The volume of wall thickness was generous relative to the terminal cross sectional area and the hexagon size was well matched to the volume of material to be crimped also resulting in minimal compression flash. These terminals require a single crimp. Indentor is to be positioned on the under side of the terminal.

Applicable terminal part numbers:

CCT25-5HD	CCT25-6HD	CCT25-8HD
CCT25-10HD	CCT25-12HD	

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

NB: BS 4579 Pt 1 states, "For all cable sizes above 10mm² the value of resistance of any joint shall not exceed the resistance of a length of conductor equal to twice the length of the compression barrel".

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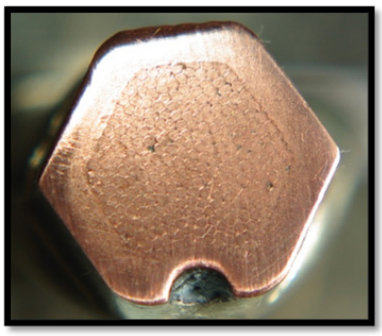
Crimp Test Specification Sheet | Cablecraft 35mm² HD Range

Crimp Section Photo



Copper tube I/D 8.2mm
Copper tube O/D 11.0mm
Test cable 35mm² (276/0.4mm) Tri-rated to BS 6231
Crimp tool - Cablecraft Pt Nº CHT 185
Crimp die - Cablecraft Pt Nº BDS50-35-150 35/50 hexagon size 9.45mm A/F
Ensure indentor is aligned on underside of crimp
Dimension from bottom of indentation to opposite flat 7.9mm
Initial volt drop across joint with 40A dc test current 0.00065v
Initial resistance across joint = 16.2 μΩ
Initial resistance of twice the length of the compression barrel = 25.4μΩ (volt drop test pass)
Minimum pull force required to meet electrical installation standard BS EN 60352-2-2006 = 2100 Newtons
Minimum pull force required to meet London Underground Engineering Rail Standard E 6487 A2 = 4100 Newtons
Pull force achieved = 4244 Newtons (pass on both standards)

Comments: Some voids visible on crimp section photo, but overall pass.

Applicable terminal part numbers:

CCT35-5HD	CCT35-6HD	CCT35-8HD
CCT35-10HD	CCT35-12HD	CCT35-14HD

Test equipment used:
Solartron 7071 computing voltmeter
Farnell AP 20-80 regulated power supply

Test cable suppliers:
General Cable
Clynder Cables
Draka Cables

NB: BS 4579 Pt 1 states, "For all cable sites above 10mm² the value of resistance of any joint shall not exceed the resistance of a length of conductor equal to twice the length of the compression barrel".

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