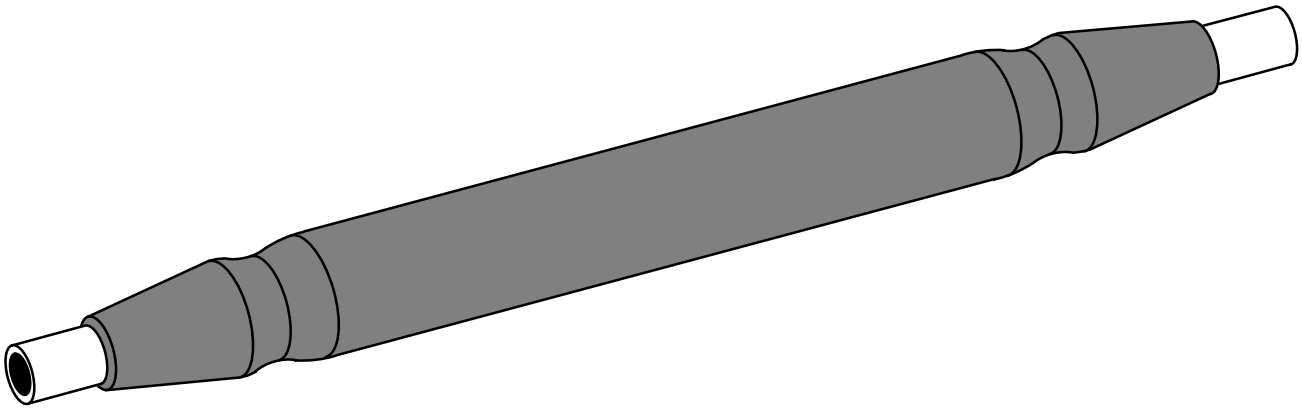
3M QS 2000



Materiallist

Inline Splicing Kit

No	Quantity	Description	93-AP621-1ESB
1	1	Splice Body	AP22
2	1	Copper Stocking	750 mm x 25 mm^2
3	2	Constant Force Spring	F4
4	1	Scotch® 13 Tape	19 mm x 4.5 m
5	1	Scotch® 2228 Tape	50.8 mm x 2 m
6	1	Cold Shrink Tube	21.3 x 762 x 72.4 mm
7	1	Finger Glove for P55/1 Grease	
8	1	P55/1 Grease	4.5 ml
9	1	Installation Instruction	AABBCC24754
10	1	Petri Connector Ref.	185 mm^2 Stranded Alum @ 20 kV
11	1	3M CC3 Cleaning Kit	2 x towels / 2 x satchets

3M Laboratories (Europe)
Branch of 3M Deutschland GmbH

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3M QS 2000

Cold Shrink Inline Splice Type

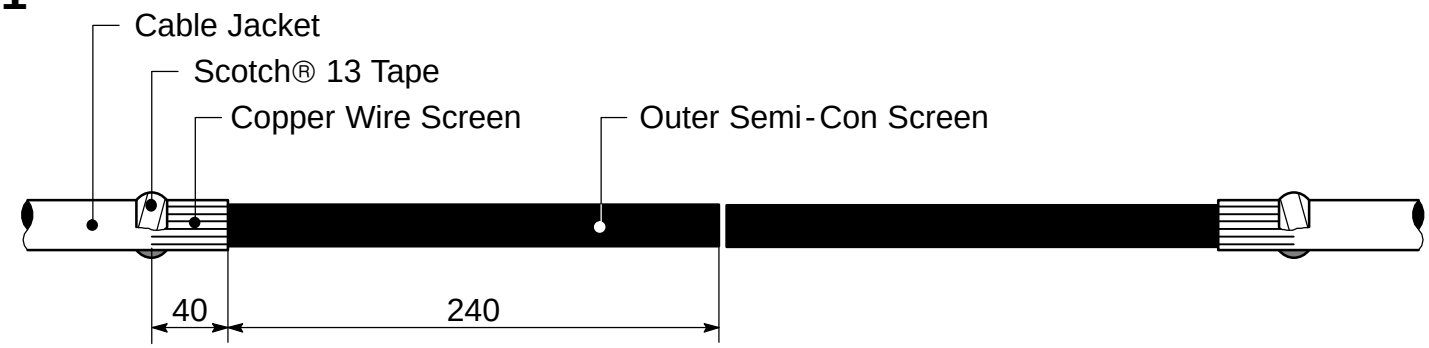
93-AP621-1 ESB

with Cold Shrink re-jacketing Tube, suitable for 185 mm^2 Polymeric Single core cable with copper wire screen acc. to VDE 0276-620 (IEC 60502) 12/20 kV

3M ELECTRICAL PRODUCTS

XE 0091-2987-7

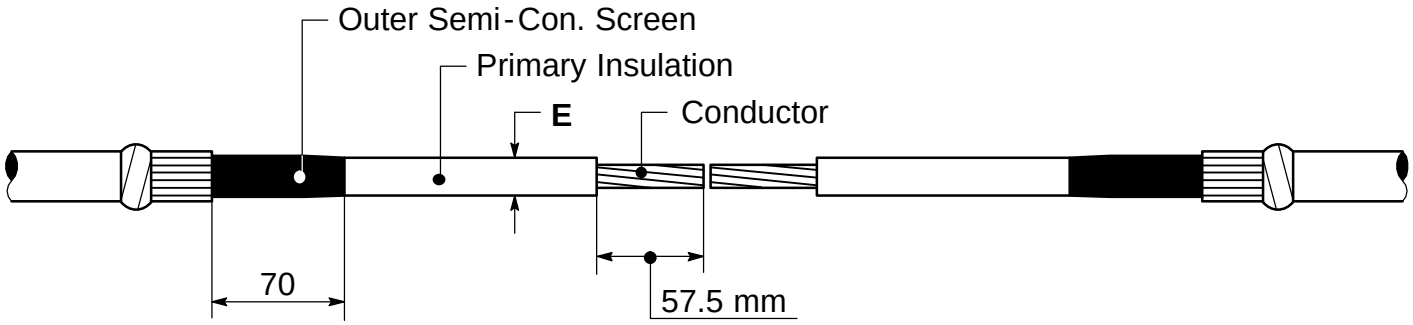
1



1.1 Remove cable jacket for 240 mm. Clean the jacket for 150 mm.
1.2 Bend back copper wires onto the cable jacket.
1.3 Cut the copper wires of 40 mm from the end of cable jacket.
1.4 Fix the ends of the copper wires with two layers of Scotch® 13 tape.

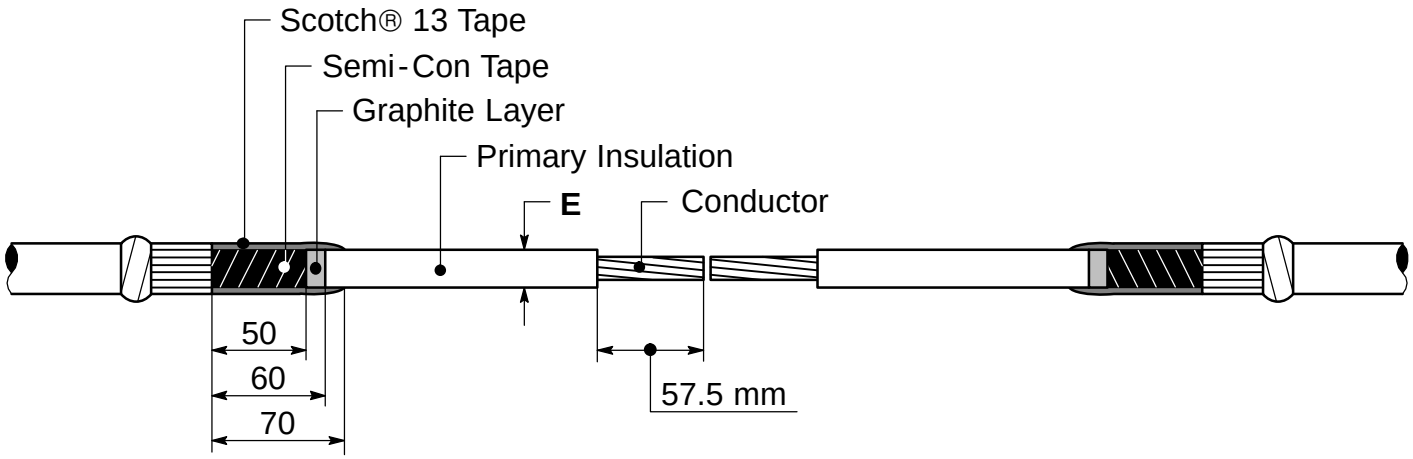
2

Cable with extruded Semi-Conductive Screen



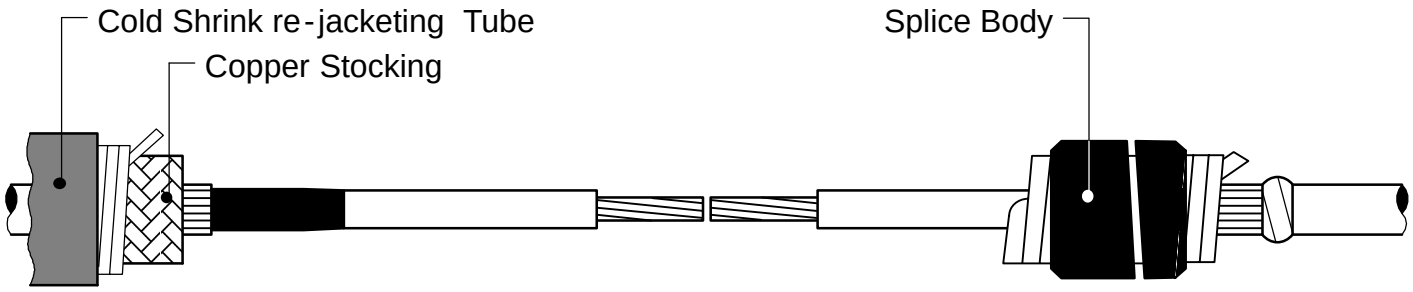
2.1 Remove semi-conductive screen acc to given dimensionof 70 mm. This application to be completed using the roud file method as approved.
2.2 Remove primary insulation for 57.5 mm.

Cable with Graphite Layer and Semi-Conductive Tapes



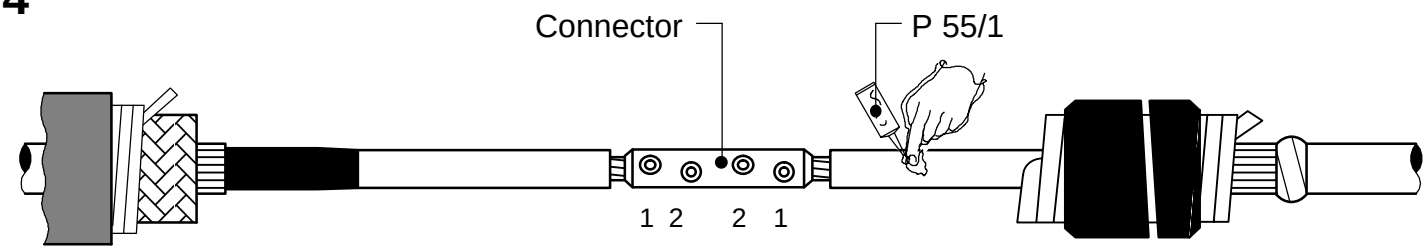
2.1 Remove semi-conductive tape leaving 50 mm in front of the cable jacket.
2.2 Remove graphite layer leaving 60 mm in front of the cable jacket.
2.3 Apply one half-lapped layer of Scotch® 13 tape from the semi-conductive tape onto the primary insulation and back again acc to given dimensions.
2.4 Remove primary insulation for 57.5 mm.

3



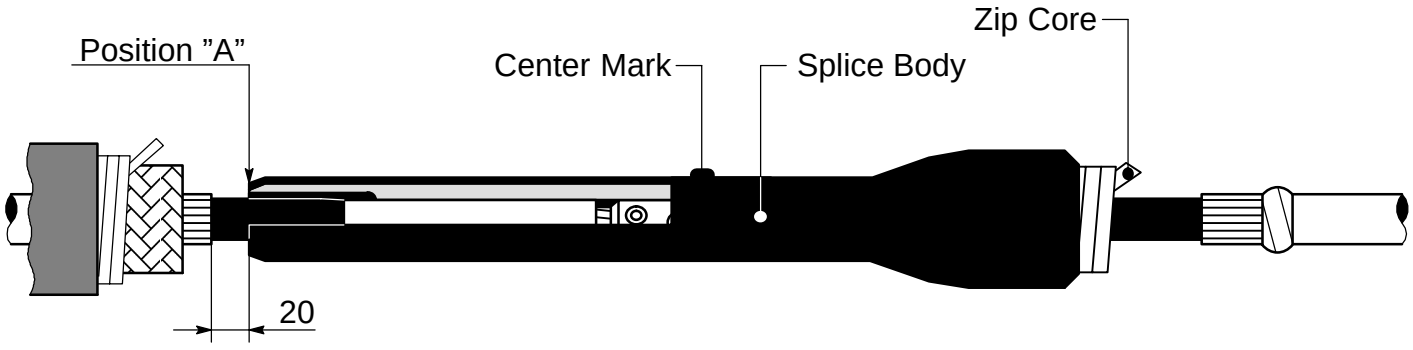
3.1 Position the, Cold Shrink re-jacketing tube copper stocking and the splice body onto the cable ends. Use polybag as protection.

4



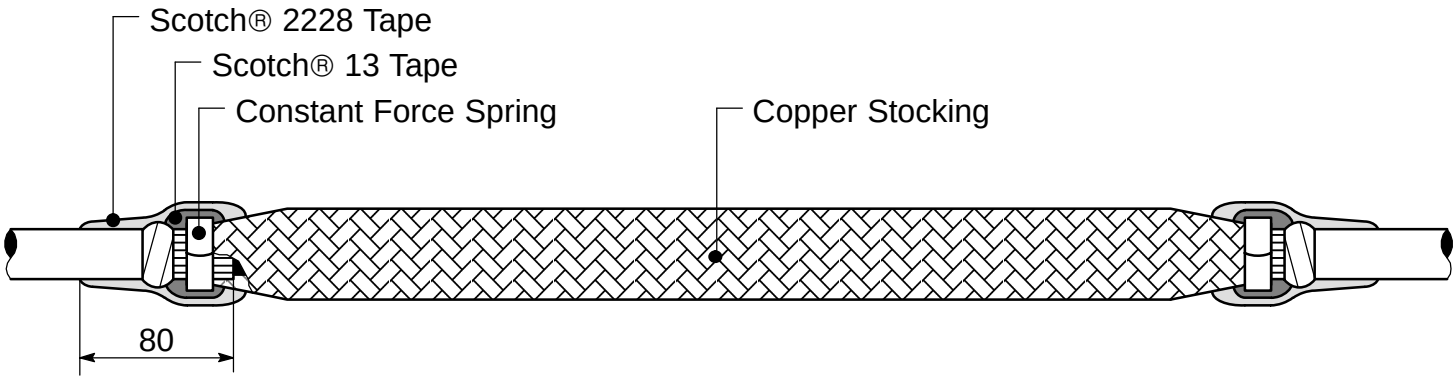
4.1 Check all re-jacketing tube/splice body/copper stocking are positioed on cable.
4.2 Clean all insulation only in direction shown, using 3M CC3 cleaning kit.
4.3 Apply the mechanical connector. Hand-tighten all screws first. Shear the bolts in the sequence shown in the diagram, i.e. 1-2. Screws that do not shear flush with the connector body must be filed down until they are flush. Clean, deburr and degrease the connector.
4.4 Apply P55/1 grease over the semi-conductive screens, the primary insulation and the connector using the plastic glove provided.

5



5.1 Slide the splice body over the connection until position ”A”.
5.2 Shrink the splice body into position by pulling out and unwinding the core in counter clockwise direction.
5.3 After shrinking, check the position of the splice body, otherwise make correction by displacement.

6

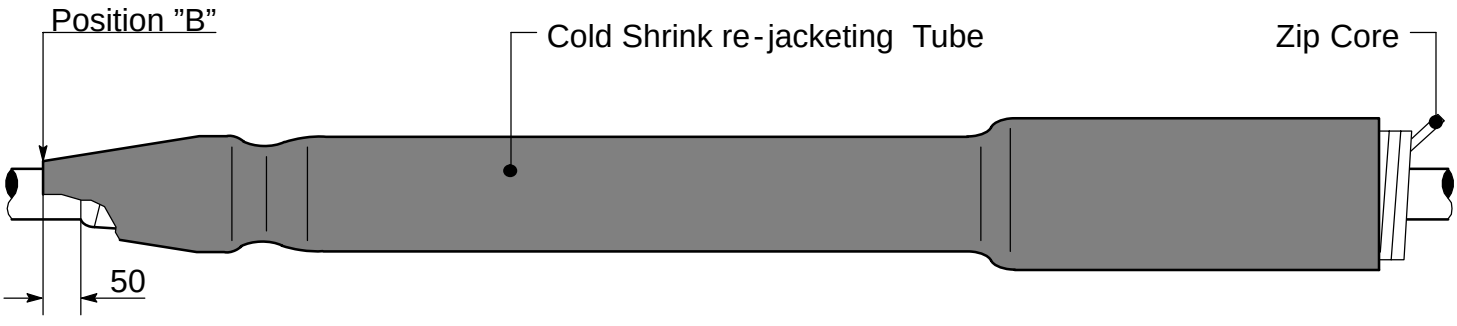


6.1 Slide the copper screen sleeve over the splice and fix it by means of a constant force spring on the metallic screen. Cut of remaining wires of the sleeve.

6.2 Overwrap the constant force spring with two half-lapped layers of Scotch® 13 tape as shown.

6.3 Wrap the Scotch® 2228 tape over the Scotch® 13 tape, cable jacket and copper stocking for a total distance of 80 mm

7



7.1 Slide the Cold Shrink re-jacketing tube over the connection up to position “B” and pull out the plastic spiral. The tube than begins to shrink from that point over the splice.