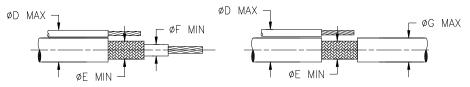


Devices Installation Procedure

1.0 Cable Dimensions



Product	Cable Dimensions			
Name	D max	E min	F min	G max
B-150-03 (-S), B-155-03	3.0 (0.118)	1.5 (0.060)	1.0 (0.040)	2.5 (0.098)
B-150-05 (-S), B-155-05	4.8 (0.189)	2.0 (0.079)	1.5 (0.060)	4.3 (0.170)
B-155-06	6.7 (0.264)	3.3 (0.130)	2.8 (0.110)	6.0 (0.236)
B-150-07 (-S), B-155-07	7.3 (0.287)	3.3 (0.130)	2.8 (0.110)	6.8 (0.268)
B-155-09	9.2 (0.264)	4.5 (0.177)	4.0 (0.157)	8.7 (0.343)
B-150-11 (-S), B-155-11	11.5 (0.453)	4.5 (0.177)	4.0 (0.157)	10.8 (0.425)
B-150-13, B-155-13	15.1 (0.594)	7.0 (0.276)	6.5 (0.260)	13.3 (0.524)
B-150-17, B-155-17	18.0 (0.709)	9.0 (0.354)	8.0 (0.315)	16.0 (0.630)
B-150-23, B-155-23	23.5 (0.925)	12.0 (0.472)	11.0 (0.433)	21.5 (0.846)
B-150-33, B-150-33	34.0 (1.340)	19.0 (0.748)	17.5 (0.690)	32.0 (1.260)

2.0 Application Equipment

Product	Configurations		
Name	Reflector	Hot Air Gun	
B-150-03 (-S), B-155-03	PR25		
B-150-05 (-S), B-155-05	PR25 or	CV-1981 (220V or 110V) - 1460W	
B-155-06	PR25D		
B-150-07 (-S), B-155-07	I KZJD	(Setting between 7 and 7.5,	
B-155-09	PR25D or	temperature: 650-750°F)	
B-150-11 (-S), B-155-11	PR34	 See Warning Note below for low 	
B-150-13, B-155-13		temperature applications and	
B-150-17,B-155-17	PR33 or PR34	uncrosslinked wires and cables.	
B-150-23, B-155-23	1 K33 01 FK34		
B-150-33, B-155-33			

WARNING

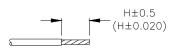
- IR tools are not recommended for use with black wire or cable insulations, and must not be used for TE/Raychem 99 wire uncrosslinked wires.
- Hot Air guns shall be set to a temperature as low as 300°C (570°F) to avoid thermal damage on uncrosslinked wires, such as TE/Raychem 99 wire.
- TE recommends controlling temperature of application equipment such as hot air guns regularly.



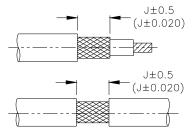
Devices Installation Procedure

3.0 Cable / Wire Preparation

3.1 Strip the ground lead wire insulation as shown



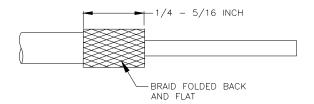
3.2 Prepare the cable as shown



Product	H±0.5(±0.02	J±0.5	
Name	0)	(± 0.020)	
B-150-03	6.0 (0.236)	7.0 (0.276)	
B-155-03	0.0 (0.230)	7.0 (0.270)	
B-150-05	8.0 (0.315)	9.0 (0.354)	
B-155-05	6.0 (0.515)	7.0 (0.334)	
B-155-06	9.0 (0.354)	10.0 (0.394)	
B-150-07	10.0 (0.394)	11.0 (0.433)	
B-155-07	10.0 (0.394)		
B-155-09	11.0 (0.433)	12.0 (0.172)	
B-150-11	12.0 (0.472)	12.0 (0.512)	
B-155-11	12.0 (0.472)	13.0 (0.512)	
B-150-13	16.0 (0.630)	17.0 (0.670)	
B-155-13	10.0 (0.030)	17.0 (0.070)	
B-150-17	21.0 (0.827)	23.0 (0.906)	
B-155-17	21.0 (0.827)	23.0 (0.900)	
B-150-23	29.0 (1.142)	31.0 (1.220)	
B-155-23	29.0 (1.142)		
B-150-33	29.0 (1.142)	31.0 (1.220)	
B-155-33	29.0 (1.142)	31.0 (1.220)	
B-150-03-S	6.0 (0.236)	7.0 (0.276)	
B-150-05-S	6.0 (0.236)	7.0 (0.276)	
B-150-07-S	8.0 (0.315)	9.0 (0.354)	
B-150-11-S	8.0 (0.315)	9.0 (0.354)	

3.3 End Strip with Braid Fold Back

This procedure is recommended for cables rated less than 125°C such as TE/Raychem 99 wire when installing SolderSleeve devices. This is to reduce the heating time and the possibility of damage to the primary insulation.



B-150-XX (-S) and B-155-XX SolderSleeves

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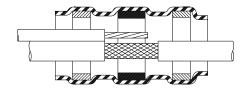
Devices Installation Procedure

4.0 Assembly

WARNING

Follow installation instructions carefully. Use adequate ventilation and avoid charring or burning during installation. Charring or burning the product will produce fumes that may cause eye, skin, nose, and throat irritation. Consult Material Safety Data Sheets **RAY5103** for further information.

4.1 Position stripped portion of ground lead over the exposed cable braid. Slide the SolderSleeve device over the exposed braid. Center the solder preform over the stripped area of cable as shown



4.2 Heating Procedure

WARNING

The heating tool and the assembly become hot during the installation of the SolderSleeve. To prevent burns, allow tool and the assembly to cool down before handling.

Allow the hot air gun to reach its operating temperature. Place the assembly centrally in the appropriate reflector (see section 2) so the heat is concentrated on the solder preform.

When heat is applied the tubing shrinks, the inserts melt, flow and form a seal. Continue heating until the solder melts and flows, and not any longer. A solder fillet between the ground lead and the cable braid must be visible. Allow the assembly to cool down before handling.

4.3 If it is necessary to bend the ground lead after the installation, a minimum bend radius of 1 diameter of the wire should be allowed

5.0 Inspection

- 5.1 Inspection for proper assembly
 - 5.1.1 The exposed ground lead must not overlap the cable jacket.
 - 5.1.2 The insulation sleeve must overlap the cable jacket so that there is no exposed braid.
- 5.2 Inspection for proper heating
 - 5.2.1 The solder preform must be completely melted and have flowed along the conductor



B-150-XX (-S) and B-155-XX SolderSleeves

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Devices Installation Procedure

- 5.2.2 A solder fillet must be visible between the ground lead and the braid.
 - Visible remnants of the original shape of the solder preform indicate an under heated termination.
 - Lack of solder fillet indicates an overheated termination.
- 5.2.3 The sleeve must be shrunk onto the cable jacket.
 - An incomplete shrunk sleeve indicates an under-heated termination.
 - A discolored dark brown sleeve indicates an overheated termination.
- 5.3 Inspection for damage
 - 5.3.1 The sleeve must not be cut or split.
 - 5.3.2 There must be no braid poking through the sleeve.
 - 5.3.3 The cable jacket and the shield termination should not exhibit signs of mechanical damage or overheating such as cuts, melting, charring.

6.0 Repair: (if necessary)

- 6.1 Repair of under-heated termination:
 - Reheat under-heated termination to obtain proper solder flow (see section 4.2)
- 6.2 Repair of overheated termination Remove the shield termination as follows;
 - 6.2.1 Score the full length of the sleeve with a sharp blade. Be careful not to cut the cable or wire jacket.
 - 6.2.2 By using the same heating tool as for the installation, heat the shield termination to soften it, and strip it off with pliers or tweezers.
 - 6.2.3 Install a new shield termination in accordance with the procedure (see section 4).

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