

# T&B Conduit Fittings

## Flexible Cord and Cable Fittings

### Specifications—Flexible Cord and Cables

#### Ref. CEC Section 4 (Conductors)

The Canadian Electrical Code, Flexible Cords are known by their trade names “Hard Service Cord,” “Junior Hard Service Cord” and “Vacuum Cleaner Cord.”

Depending on jacket material, flexible cords listed are suitable for use where immersed in water or where occasionally or continuously in contact with oil or immersed in oil, or outdoors and in mobil-homes and recreational vehicles.

Flexible cord is permitted by Code for use in portable appliances or stationary equipment requiring movement for service and repair and for wiring in cranes, hoists and elevators. Flexible cord is also permitted to be used to prevent transmission of noise or vibration.

Flexible cord is not permitted as a substitute for fixed wiring of structures or where concealed behind building walls, ceilings or floors. Running flexible cord through holes in walls, ceilings, floors or through doorways, windows or similar openings is also prohibited.

CEC Section 4 requires that flexible cords be so connected to devices and to fittings that tension is not transmitted to joints or terminal screws. Use of suitable strain relief fittings designed for the purpose is one of the recommended alternatives.

Please refer to the following for further details and complete information:

1. U.L. 62, ANSI C33.1...Safety Standard for Flexible Cord and Fixture Wire
2. U.L. 514B, Safety Standard for Outlet Boxes and Fittings
3. CEC Section 4...Conductors
  - 4.010...Uses of Flexible Cord
  - 4.038...Uses of Portable Power Cable
  - 12-010 (4)...Flexible Cords in Ducts and Plenum Chambers
  - 22-108 (2)...Bonding conductor for Flexible Cords for Portable Equipment

- Portable Stage Equipment
- 50-016...Flexible Cord for Attachment Plugs and Similar Wiring Devices
- 70-108...Power Supply Cord-Factory-Built Relocatable Structures and Non-relocatable Structures
- 76-002...Temporary Wiring
- 76-010...Feeders
- 78-058 (2)...Marinas and Yacht Clubs
- 78-104 (2)...Marine Wharves, Structures, and Fishing Harbours
- 4. CSA C22.2 No. 49...Safety Standards for Flexible Cords and Cables and Fixture Wires
- 5. CSA C22.2 No. 18...Safety Standards for Outlet Boxes, Conduit Boxes and Fittings

Following is a brief description of the three cords.

44-350 (1) (b)...Flexible Cords for

	Hard Service Cord	Junior Hard Service Cord	Vacuum Cleaner Cord
<b>1. Use</b>	Extra Hard Pendant, Portable	Hard Pendant, Portable	Light Pendant, Portable
<b>2. Voltage Rating</b>	Up to 600 volts	Up to 300 volts	Up to 300 volts
<b>3. Conductor Material</b>	Copper (Stranded)	Copper (Stranded)	Copper (Stranded)
<b>4. Type Designation (Depends on Jacket Material)</b>			
i. Rubber Jacket	Type S	Type SJ	Type SV
ii. Oil Resistant Rubber Jacket	Type SO	Type SJO	Type SVO
iii. Thermoplastic Jacket	Type ST	Type SJT	Type SVT
iv. Oil Resistant Thermoplastic Jacket	Type STO	Type SJTO	Type SVTO

#### Please Note

The excerpts and other material herein, whether relating to the Canadian Electrical Code 2009 Part I, the Underwriters Laboratories, Inc. listing, to industry practice or otherwise, is not intended to provide all relevant information required for use and installation. Reference to original or primary source material and data is mandatory before any application or use is made of the product.

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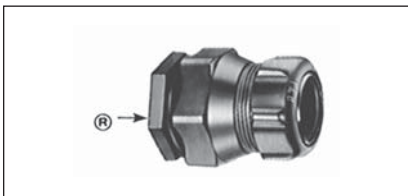
### Suggested Specifications for Flexible Cord and Cable Fittings



**2520 and 2530 Series  
Liquidtight Flexible  
Cord & Cable Fittings**



**2920NM Series  
Nonmetallic Liquidtight  
Flexible Cord & Cable Fittings  
The Ranger™ Series**



**2631 Series  
Liquidtight Flexible  
Cord & Cable Fittings**



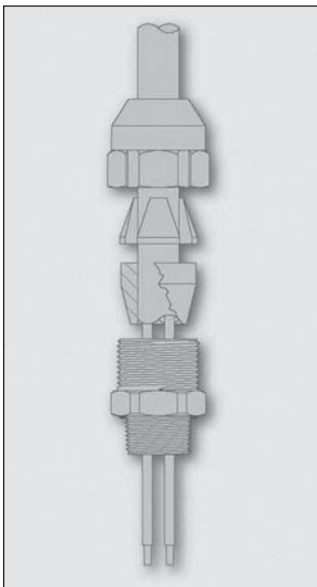
**2920AL Series  
Aluminum Liquidtight  
Flexible Cord & Cable Fittings  
The Ranger™ Series**



**2672 Series  
Flexible Cord Fittings  
(Plastic)**



**2920S Series  
Steel Liquidtight  
Flexible Cord & Cable Fittings  
The Ranger™ Series**



**TCF Series  
Aluminum Tray/Cord Fitting**



**2920SST Series  
Stainless Steel Liquidtight  
Flexible Cord & Cable Fittings**

- Flexible cord or cable and associated fittings shall be suitable for conditions of use and location and approved for the purpose by a nationally recognized testing laboratory, inspection agency or product evaluation organization.
- Flexible cord or cable shall be so connected to the device or fitting that tension will not be transmitted to joints or terminal screws. Sufficient slack shall be provided to avoid sharp flexing and straining. Cord or cable shall be installed in such a manner that liquid will tend to run off the surface instead of draining towards the fitting.
- Where flexible cord or cable exposed to intermittent or constant moisture and subjected to mechanical strain is terminated into a threaded or threadless opening, terminating fittings shall be of watertight strain relief type such as Thomas & Betts series 2920, 2920AL, 2920NM, 2520, 2631 or 2672. Fittings shall be equipped with a beveled moisture resistant/oil resistant synthetic rubber bushing.
- Where space is limited inside the enclosure, a female hub type fitting such as Thomas & Betts series 2631 shall be furnished. A captive resilient sealing 'O' ring shall be included to positively protect against damage from overtorquing.