

# TECHNICAL DATA

## Conductors

ASTM Class B stranded soft bare copper. In sizes 8 AWG to 1000 MCM, the conductors are compact stranded to reduce cable diameter and weight. Aluminum conductors may be provided on request.

## Conductor Shield

Extruded semiconducting cross linked polyethylene conductor shielding is applied to cables rated over 1000V.

## Insulation

Cross linked polyethylene, the most widely used polymeric material for insulating both low and high voltage cables, chosen for its excellent combination of electrical, physical and environmental properties.

## Insulation Shield

Teck 90 Power Cables rated 5KV and higher have an extruded layer of semiconducting insulation shielding material. In multi-conducting cables, the metallic shield is copper tape, while in the single conductor cables the concentric ground provides the metallic shield.

## Bonding Conductor

Class B stranded soft bare copper conforming to table 16 of the Canadian Electrical Code, Part 1. In single conductor cables the bonding conductor is in the form of concentric wires over the insulation or shield

## Fillers

Where fillers are required, non hygroscopic materials are used.

## Core Binder

Where required, a binder tape is applied over the assembled core.

## Inner Jacket

The jacket is 90C and low temperature rated, flame retardant, low acid gas emitting black PVC.

## Armour

Interlocking aluminum tape armour is applied directly over the inner jacket. Galvanized steel is also available.

## Outer Jacket

Low acid gas emitting, fire retardant, PVC rated for low temperature is utilized. Standard outer jacket colour is Black for 600V and 1KV, Orange for 5KV, and Red for 15KV. A Blue jacket is also available on some multi-conductor configurations. Other outer jackets colours are available on special request.

### Conductor Identification

<b># of Conductors</b>	<b>Identification Key</b>
<b>1</b>	None
<b>2</b>	Black, White
<b>3</b>	Red, Black, White
<b>4</b>	Red, Black, Blue, White
<b>5 or more</b>	Number Coded
<b>COMPOSITE</b>	
<b>Power</b>	Colour Coded
<b>Control</b>	Number Coded

<b>Conductor Size</b>	<b>Identification Method</b>	
	<b>Colours</b>	<b>Numbers</b>
<b>14-2 AWG</b>	Coloured insulation	Printed
<b>1-1750 MCM</b>	Coloured stripes	Printed

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## Specification Information

Dimensions and weights are approximate and subject to manufacturing tolerances. weights shown are for cable only; add 20% for reels to obtain estimated shipping weight.

100% insulation level may be used in systems where faults will clear within one minute.. Such systems may be grounded or ungrounded. 133% insulation level is recommended where ever fault clearing times may exceed one minute but not one hour, and where additional insulation strength is desired. For other cases including resonant ground systems and where fault clearing time may exceed one hour, 173% insulation level is recommended.

Ampacities based on Rule 4-004 and Table 1 and 2 of CSA C22.2-1-1994 and apply to cables with copper conductors rated up to and including 5KV. Single conductor cables may require derating in accordance with CEC Rule 4-008. For cable over 5KV ampacities are based on ICEA Publication P-46-426. Inspection authority agreement is required to use these values. The equipment bonding conductor sizes shown are specified in CSA C68.3-M92 and are based on the requirements of Table 16 and the ampacities of Table 2 if the Canadian Electrical Code.

Cable fitting data is based on information published by the relevant manufacturers. In some instances the fittings listed may require the removal of the inner jacket.