



SHAWFLEX

A SHAWCOR COMPANY



The Circuit

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The Howl about Shields...

The shield (or screen) in a cable is a metallic covering over the conductors to keep external interference from affecting the signal in the cable. In the case of a multi-pair shielded cable, it can also prevent the pairs from interfering with each other.

There are several types of shielding, each being effective at a certain range or for a specific application. The most common types of shields and their applications are listed below.

The parameters of shield effectiveness have been the subject of much research and testing. If you want additional information, please contact your local ShawFlex sales office.

The rest of the story...

Types of Shielding

Aluminum Polyester Tape - Perhaps one of the most common shields you will find, this shield provides 100% coverage. Some of the advantages are the ease of termination by means of a drain wire, very cost efficient and excellent shielding properties at high frequencies. You will find this shield on standard instrument cables.

Copper Tape - Copper tape shielding also provides 100% coverage and is available in several variations such as single helical overlap, dual intercalated and corrugated. Most applications for this product are with utility substations where electromagnetic interference can literally make one's skin crawl.

Braids - The effectiveness of this type of shield is linked to the coverage of the braid, usually from 60% to 90%. Braid shields are found on coax cables and flexible cables such as Flexar®. (The ShawFlex solution to your flexing needs.) These types of shields are best at low frequencies.

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Upcoming Events

Canadian Manufacturing Technology Show
15-18 October 2001
National Trade Centre
Toronto, ON

Canadian Wind Energy Association - CanWEA 2001
Seminar and Conference
29-31 October 2001
Achieving 10 x 10
(10 000 mW by 2010)
Crowne Plaza
Ottawa, ON
www.canwea.ca

AltEnergy 2001
7-8 November 2001
National conference on renewable energy
Edmonton, AB
www.altenergy.com

Trivia Challenge

Trivia Answer July 2001

The shifting strip of sand that is known as “the graveyard of the Atlantic” is located in what area of Canada?

Answer: Sable Island, NS

New Challenge

It is estimated that Canada has how much of the world's fresh water supply? 1/4, 1/3, 1/2?

Contact Us:

Toll Free

1-800 668 4842

E-mail:

bknutson@shawflex.shawcor.com
pgeimer@shawflex.shawcor.com
kpaul@shawflex.shawcor.com



News from Across the Country

Western Droppings

With lead times pushed out to seven weeks or perhaps more on some items, it is imperative when quoting your customer to remember to advise the current lead times. When submitting an order, please request a confirmation of the current lead times.

Utility activity in the western provinces has picked up through 2001 and looks to continue into 2002 as we prepare to bring more power on line. With this in mind, remember ShawFlex for your substation cable needs. We have a full line of utility cables and a brochure to assist you in choosing the right cable.

Central Crumbs

The Ontario Government passed Bill 35 in the fall of 1998 to deregulate the province's electricity supply system. Ontario's electricity market will be open to competition in May 2002. There will be Power Generation and “Wires” deliveries businesses created. Power generation sales and services will be competitive while the “wires” deliveries business will be regulated by the Ontario Energy Board.

We all hope in a more competitive market for electricity and its consistent supply.

Eastern Tidbits

Hydro Quebec announced recently that it will set in motion a new \$1 billion hydroelectric project on the Peribonka River in northern Quebec. This is particularly good news as once Hydro Quebec begins spending, all related industries benefit. The project is, of course, long term with completion around 2010. This will also increase the amount of electricity that we export to our power challenged neighbours in the US.

