

NEOCAB®

Wires & Cables



TRI-SHIELD®

निओकैब®

Ultimate Protection with Neocab

TRI SHIELD+
HEAT RESISTANT FR CABLE

✓ **RoHS CE**



INTERCERT ACCREDITED
Management Systems
Certification Body MSCB-121



HEAT
RESISTANT



FLAME
RETARDANT



IMPROVED
OXYGEN INDEX



IMPROVED
TEMP. INDEX



ANTI
RODENT



NO SHORT
CIRCUIT



101%
CONDUCTIVITY

- Saves Energy
- Saves Lives
- Saves Nature

NEOCAB® TRI-SHIELD® PLUS HRFR insulation with advanced technology, offers higher current carrying capacity and heat resistant properties suitable for operation at high temperatures. These cables are environment friendly with features such as High insulation resistance, RoHS compliance, Lead-Free, anti-termite and anti-rodent. These features makes it the ideal wire for use in Industrial, domestic and commercial applications.

These Cables are made with Oxygen-Free copper wire with **MORE THAN 99.97% Purity & 101% Conductivity.**

- Made of Flexible Multi Strand Bunched Copper Conductor with:
 - 99.97% Oxygen Free Copper
 - 101% Conductivity
- These Cables are:
 - Easy to install
 - Long Life
 - Reduces Energy Consumption by up to 20%



ANTI RODENT

TRI-SHIELD® PLUS – TRIPPLE INSULATION TRIPPLE SECURE

This advanced TRI-SHIELD® PLUS technology safeguard us and environment from harmful substances such as lead, mercury, cadmium and chromium, this technology helps to reduces current leakage to protect from any serious damage and installations in the house. Another benefit of TRI-SHIELD® PLUS is that it comes with termite and rodent repulsion properties to protect insulation from the damage which can be caused by rodents & termites, which can lead to a short circuit and can harm to property and human life.

HR (HEAT RESISTANCE AT 85°C) – HIGHER LOAD WITH SAME SQ.MM

Current carrying capacity of a wire is defined as how much load a conductor can carry (In amperage). When the current flows through the conductor a certain level of heat generates which can further increase up to the melting temperature of the insulation or insulating material. **NEOCAB® TRI-SHIELD® PLUS HRFR** wires offer insulation with (HR) Heat resistant along with Flame Retardant properties which are suitable to bear a temperature up to 85 °C, whereas ordinary PVC is suitable only up to 70 °C. Due to this feature these Wires are capable to carry Higher current and ensures better electrical and mechanical performance at higher temperatures. The HRFR property is available from 0.5 sq. mm to 630 sq. mm in single core.



**HEAT
RESISTANT**



NO SHORT CIRCUIT

HIGH INSULATION RESISTANCE - LOW LEAKAGE CURRENT

In all cables, there is generally leakage of current from the live conductor through the insulation. With elevated temperatures this leakage also gets increased substantially. Most of fire incidents may have caused due to poor Insulation Resistance. In case of inferior quality of insulation, the current leakage increases in multifold. This is unsafe and can cause damage to installations as well as become a threat to life. Low Leakage Current—NEOCAB wires have an allowable current-leakage limit that is 50 times lower than the prescribed international safety norms.

HIGHER OXYGEN INDEX - BETTER FLAME RETARDANT PROPERTY

The oxygen index for these HRRFR cable insulation is 29% .i.e. these HRRFR insulation can catch the flame only if oxygen level in atmosphere or air is more than 29% whereas it known fact that in atmosphere oxygen level is 21% only. Higher the index value, greater the non-combustibility.



IMPROVED OXYGEN INDEX



IMPROVED TEMP. INDEX

HIGHER TEMPRATURE INDEX - BETTER FLAME RETARDANT PROPERTY

The Temperature index for these HRRFR cable insulation is 250°C, i.e under normal circumstances these HRRFR insulated cables catch fire only at elevated temperature of 250°C. If temperature falls below 250°C flame would cease to extinguish and that is why these cable are Flame Retardant. Higher the index value, greater the Flame-Retardant property.

SELF-EXTINGUISHING PROPERTY

HRRFR cable have self-extinguishing property which do not allow the fire to spread. These FR properties are imparted using Superior quality raw materials. FR PVC insulation having high oxygen and temperature index, thus helps in restricting spread of fire even at high temperatures.



FLAME RETARDANT

APPLICATION:

These cables can be used for Low-Voltage Electrical wiring of commercial and residential Buildings, For Light-Fittings and Appliance wiring upto 1100 Volts.

SALIENT FEATURES

- Long and Rugged life with oil as well as abrasion resistance properties.
- Superior Multi-strand Conductor with high flexibility makes These Cables easy to install and give long service life.
- Superior conductivity helps in reducing Energy bills.

BENEFIT OF TRI-SHIELD® PLUS HRFR

- Rugged and Durable with high Thermal Stability for Longer life of Cable.
- Superior Flame Retardant Properties with Higher Oxygen & Temperature Index to safe guard lives during Fire Incidents.
- Scratchproof, Abrasion resistant and Moisture Resistant Insulation to protect cable from harsh environment. Cable Insulation come with UV-Protected and weather proof features.
- **TRI-SHIELD®** helps in offering high insulation resistance and dielectric strength, to control current leakages even after long service life.

These Cables are available from 0.75sq.mm to 4.0sq.mm in attractive 90meter Corrugated Box Packages, Higher sizes and longer Project lengths in Poly-pouch packing also available on Demand.

NEOCAB TRI-SHIELD® PLUS HRFR CABLES:

Conductor rating of max 85°C temperature

Insulation DO NOT Soft, Melt or Breaks even at higher temperatures than rated temperature of 85°C

Insulation breaking can be avoided during Short Circuit conditions & voltage surges. Many lives can be saved.

Long & Rugged Service life as cable do not age fast due to excellent Insulation selected

Prevents fire incidents-Millions of Lives can be saved annually

NORMAL FR CABLES FROM KNOWN OR UNKNOWN BRANDS:

Short Circuit conditions can not be prevented during voltage surges

Small service life as cable starts ageing fast due to harsh Indian weather conditions

Conductor rating of max 70°C temperature Insulation starts softening and Breaks at higher temperatures than rated temperatures

Made-up of toxic materials

Not suitable for applications like High-rise Buildings and Industrial-commercial places due to use of Health Hazardous Materials

SIZE DIMENSIONS AND RATINGS

Nominal Cross Sectional Area of Conductor	Number/Nominal Dia of wires*(Nom.)	Thickness of insulation (Nom.)	Approx. Overall Diameter	Current Rating #		D.C. Resistance (Max.) at 20°C
				Conduit	Unenclosed on a surface	
Sq.mm	Number/mm	mm	mm	amps	amps	Ohm/km
0.75	24/0.20**	0.6	2.40	10A	11A	26.00
1.00	14/0.30*	0.7	2.70	15A	16A	18.10
1.50	22/0.30*	0.7	3.00	18A	22A	12.10
2.50	36/0.30*	0.8	3.70	25A	28A	7.41
4.00	56/0.30**	0.8	4.20	35A	42A	4.95
6.00	84/0.3**	0.8	4.90	46A	52A	3.30

The number & diameter of conductor stands are for reference only and governed by conductor resistance.
The above date is indicative only and may be revised without prior information. Neocab will not be responsible for any damages arising out of incorrect application of its products.

PROPERTIES

Test	Test Method	Values
Limited Oxygen Index	IS 10810P-58	>29%
Limited Temperature Index	IS 10810P-64	>250°C
Standard Colours : Red, Yellow, Blue, Black, Green (For Earthing)		
Supplied in 90 meter lengths in attractive carton.		
Confirm to IS694-2010 ISI LicenceNo. CML-7987820		
# As per IS 3961 (Part V) - 1968 (2 Cable Single Phase)		
*As per conductor Class 2 of IS. B130 / 1984		
**As per conductor Class 5 of IS. B130 / 1984		

Mfg. by : **R. S. INDUSTRIES**

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