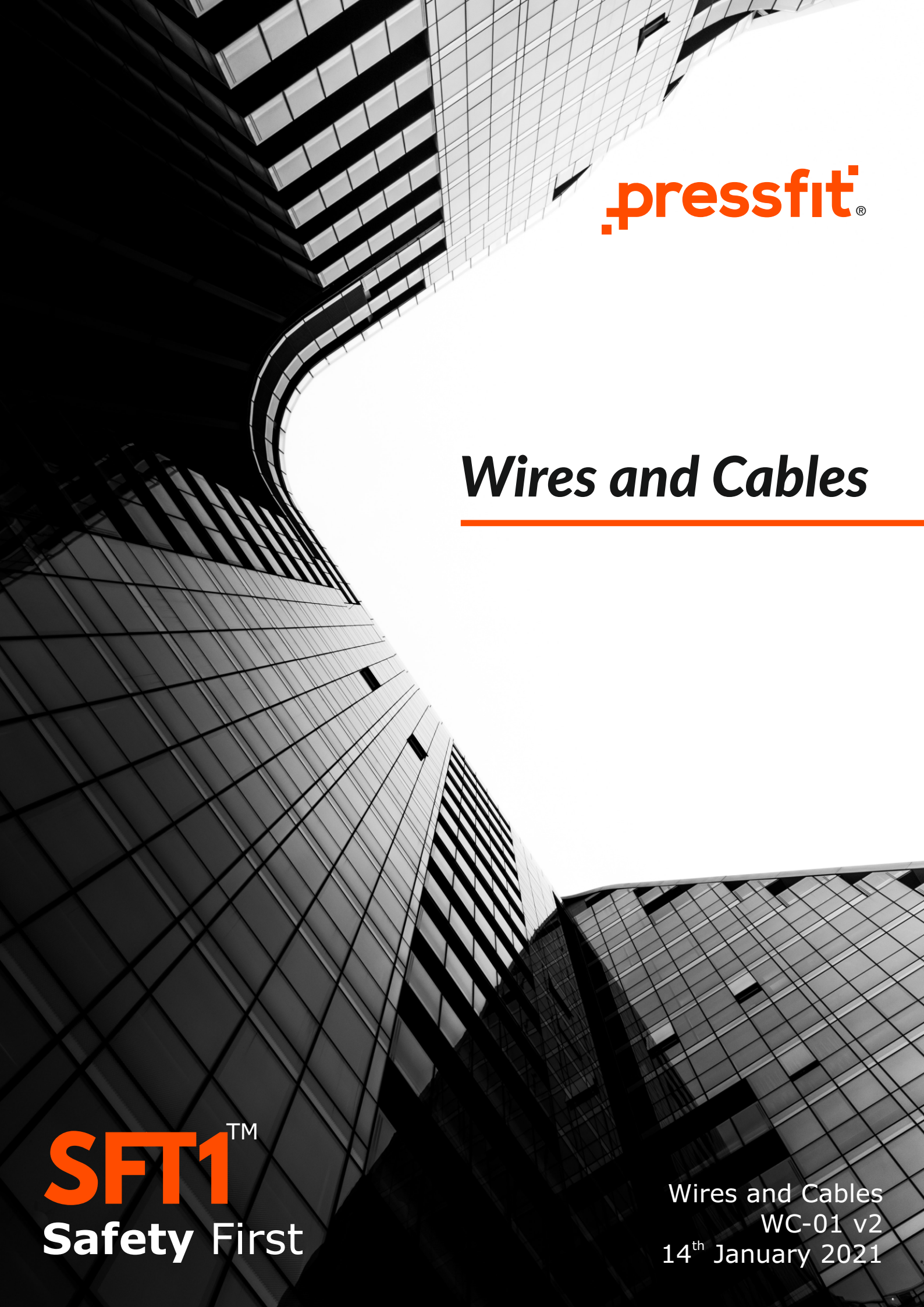

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Wires and Cables

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Safety First

Wires and Cables
WC-01 v2
14th January 2021

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Single Core - FR

Single Core Flame Retardant Unsheathed 1100V PVC Insulated Building Wires with Copper Conductor

Single Core FR Wires are made from electrolytic copper which increases its conductivity. These bunched copper wires are made up of multiple strands and can bend easily. With top-quality PVC insulation and copper conductor, Pressfit wires function better over their entire service life.

Tragedy can happen at any time. A sudden spark can turn into widespread fire. However, this is not the case with Pressfit FR wires. They are well insulated with specially formulated PVC compounds, which have fire-retardant properties, a high oxygen level and temperature index, that restrict the spreading of fire. This makes them especially suitable for use in emergency lightings, air conditioners, and control room areas.

Ref. Std.:	IS 694:2010
Conductor:	Plain Annealed Copper as per IS 8130:2013
Insulation:	IS 5831, FR with RoHS, Anti-Rodent, Anti-Termite
Marking:	Pressfit FR (size sq. mm) 1100V with CM/L 3700245
Colours:	Red, Yellow, Blue, Green, Black (other colours available for project orders)
Packing:	45 mtrs. in poly-pack, 90 mtrs. in protected cartons, project packing of 180 mtrs. in poly-pack

Nominal Area of Conductor	No. of Strands / Nom. Dia. of Each Strand	Nominal Thickness of Insulation	Approx. Overall Diameter	Current Carrying Capacity# 2 Cables Single Phase		Max. Resistance of Conductor at 20°C
				In Conduit/ Trunking	Unenclosed Clipped Directly to a Surface or on Cable Trays	
sq. mm	mm	mm	mm	Amp.	Amp.	ohm/km
0.75	24/0.20^	0.6	2.5	7	8	26.0
1	14/0.30*	0.6	2.8	12	13	18.1
1.5	22/0.30*	0.7	3.1	14	17	12.1
2.5	36/0.30*	0.8	3.8	19	24	7.41
4	56/0.30^	0.8	4.4	25	29	4.95
6	84/0.30^	0.8	5.2	32	37	3.3
10	140/0.30^	1.0	5.8	43	51	1.91
16	126/0.40^	1.0	6.8	58	68	1.21

#As per IS 3061(V):1968

*As per Conductor Class 2 of IS 8130:2013

^As per Conductor Class 5 of IS 8130:2013

Applicable Standards: IS 694:2010, IEC 60332-1 – 2004, ASTM D2863 – 17a

Nominal Voltage (U_0/U): 600/1100V	Flame Resistance: ASTM 2863
Max. Operating Temperature: 85°C	Flammability: IEC 60332 – 1
Temperature Range: -15°C to 85°C	Minimum Bending Radius: 8D

Limited Oxygen Index IS 10810 (Part 58) >29%

Limited Temp. Index IS 10810 (Part 64) >250°C

IS : 694 CM/L 3700245

RoHS COMPLIANT

ISO 9001:2015 CERTIFIED COMPANY

Anti-Rodent

Rodent repellents are added while making these wires. Its anti-rodent properties protect the wires from rats.

Anti-Termite

The material composition of the insulation of the wires has special additives that repel away and protect wires from pesky termites.

Flame Retardant

The wires are self-extinguishing and can withstand high temperatures. In case of fire emergencies, they retard the spreading of fire across the entire wiring system.

101% Conductivity*

Our wires are made using electrolytic grade pure bare copper, which makes them highly conductive. This helps reduce power loss and save money on electrical bills.

* IACS Conductivity (58.2 MS/m)

100% Bunched Electrolytic Copper

Bunching of wires ensures maximum conductivity and minimum power loss. Lower power loss results in lower electricity bill. Bunched wires also offer higher flexibility as they don't lose their shape easily.

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Single Core - FRLSH

Single Core Flame Retardant Low Smoke Low Halogen Unsheathed 1100V PVC Insulated Building Wires with Copper Conductor

Pressfit Fire Retardant Low Smoke Low Halogen (FRLSH) Electrical Wires are manufactured using electrolytic copper to ensure superior conductivity. In addition to the properties required by IS 694:2010, they possess special fire-retardant, low-smoke, and toxic vapor suppressing properties.

The low-smoke factor avoids the production of toxic, halogenated gases and helps to maintain visibility, reduce respiratory damage. They are especially suitable for highly populated, enclosed public spaces where these aspects are critical.

This makes Pressfit FRLSH Wires an ideal choice for wiring in multi-story buildings such as hotels, shopping centers, banks, hospitals, and other commercial complexes.

Ref. Std.:	IS 694:2010
Conductor:	Plain Annealed Copper as per IS 8130:2013
Insulation:	IS 5831, FRLSH with RoHS, Anti-Rodent, Anti-Termite
Marking:	Pressfit FRLSH (size sq. mm) 1100V with CM/L 3700245
Colours:	Red, Yellow, Blue, Green, Black (other colours available for project orders)
Packing:	45 mtrs. in poly-pack, 90 mtrs. in protected cartons, project packing of 180 mtrs. in poly-pack

Nominal Area of Conductor	No. of Strands / Nom. Dia. of Each Strand	Nominal Thickness of Insulation	Approx. Overall Diameter	Current Carrying Capacity# 2 Cables Single Phase		Max. Resistance of Conductor at 20°C
				In Conduit/ Trunking	Unenclosed Clipped Directly to a Surface or on Cable Trays	
sq. mm	mm	mm	mm	Amp.	Amp.	ohm/km
0.75	24/0.20^	0.6	2.5	7	8	26.0
1	14/0.30*	0.6	2.8	12	13	18.1
1.5	22/0.30*	0.7	3.1	14	17	12.1
2.5	36/0.30*	0.8	3.8	19	24	7.41
4	56/0.30^	0.8	4.4	25	29	4.95
6	84/0.30^	0.8	5.2	32	37	3.3
10	140/0.30^	1.0	5.8	43	51	1.91
16	126/0.40^	1.0	6.8	58	68	1.21

#As per IS 3061(V):1968

*As per Conductor Class 2 of IS 8130:2013

^As per Conductor Class 5 of IS 8130:2013

Applicable Standards: IS 694:2010, IEC 60332-1 – 2004, ASTM D2863 – 17a

Nominal Voltage (U_o/U): 600/1100V	Flame Resistance: ASTM 2863
Max. Operating Temperature: 85°C	Flammability: IEC 60332 – 1
Temperature Range: -15°C to 85°C	Minimum Bending Radius: 8D

Limited Oxygen Index IS 10810 (Part 58) >29%

Limited Temp. Index IS 10810 (Part 64) >250°C

Smoke Density (Light Absorption) IS 13360 (Part 6)/Sec 9 >60%

Gas Generation IS 10810 (Part 59) >20%

IS : 694 CM/L 3700245

RoHS COMPLIANT

ISO 9001:2015 CERTIFIED COMPANY

Low Smoke, Low Halogen

An ordinary wire emits toxic gases when it catches fire. These gases impair visibility and hinder rescue operations. FRLSH wires release little smoke and help immensely in an emergency.

Flame Retardant

The wires are self-extinguishing and can withstand high temperatures. In case of fire emergencies, they retard the spreading of fire across the entire wiring system.

Superior Insulation

Pressfit FRLSH Wires are provided with excellent insulation. It makes them durable, and resistant to chemical reactions, abrasion, wear, and tear.

101% Conductivity*

Our wires are made using electrolytic grade pure bare copper wire, which makes them highly conductive. This helps reduce power loss and save money on electrical bills.

* IACS Conductivity (58.2 MS/m)

Anti-Rodent

Rodents can be a nuisance; they rip out the wires and cut off power supplies. However, this is not the case with Pressfit Wires. They are equipped with Anti-Rodent properties to keep the rodents away from the wires and give them a longer lifespan.

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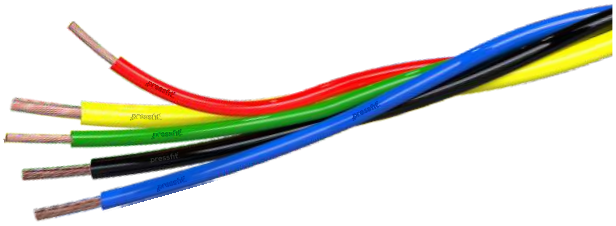
AFFORDABLE VALUABLE PROFITABLE

AVP Economical Building Wires (FR)



AVP Economical FR Building Wires provide security and reliability to your home wiring at an optimal cost thanks to our scale and state-of-the-art manufacturing expertise. With a price-to-performance ratio that is hard to beat, these are especially used in non-critical installations or temporary wiring systems.

The PVC insulation of the wires has special fire retardant properties that allow them to contain the spread of fire. Needless to say, this is a lifesaver in emergencies.

Cost-Saving

Pressfit AVP Building Wires, as the name suggests, are pocket-friendly. They are comparatively lesser expensive than other wires.

Superior Insulation

Pressfit AVP Economical FR Wires are provided with excellent sheath insulation. It ensures safety of everyone around the wiring system.

Fire Retardant

Pressfit AVP Economical FR Wires are insulated with fire retardant PVC. This property helps in containing the spread of fire during an emergency.

Anti-Rodent

Rodents can be a nuisance; they rip out the Wires and cut off all power supplies. However, this is not the case with Pressfit Wires. They are equipped with Anti-Rodent properties to keep the rodents away from the Wires and give the Wires a longer lifespan.

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Aluminium Service Cables

IS : 694

Pressfit's twin-core flat Aluminium service cables are made with bright electrolytic-grade Aluminium, making them suitable for mainlines to homes, buildings, and large commercial complexes. The conductor cores are insulated with a special UV-rated PVC compound. With this, Pressfit's cables can withstand adverse weather conditions – resulting in lesser sag, a longer cable life, and greater electrical safety.

Aluminium is used to a considerable extent for transmission lines because its weight is one half of that of copper for the same conductance. As it has 1.4 times the linear coefficient of expansion, changes in sag with temperature are greater. Even when power loss is considered during transmission, they prove to be cost-effective where electrical lines have to be laid on a massive scale.

Ref. Std.:	IS 694:2010
Conductor:	Plain Annealed Aluminium as per IS 8130:2013
Insulation:	IS 5831, FR with RoHS, Anti-Rodent, Anti-Termite
Marking:	Pressfit 1100 V (size sq. mm) x N Core ISI with CM/L
Colours:	Red, Black with Black colour PVC sheath
Packing:	90 mtrs. coils or 450 mtrs. coil in woven sack

Nominal Area of Conductor	Nos. & Diameter of Wire		Nominal Thickness of Insulation	Nominal Thickness of Sheath	Approx Overall Dimensions Width x Height	Current Rating	Max DC Resistance at 20°C
	Solid	Stranded					
sq. mm	mm	n/mm	mm	mm	mm x mm	Amp.	ohm/km
2.5	1/1.82	7/0.65	0.70	1.0	10.5 x 6.6	18	12.10
4	1/2.26	7/0.86	0.80	1.0	12.0 x 7.4	23	7.41
6	1/2.79	7/1.05	0.80	1.1	13.0 x 8.0	30	4.61
10	1/3.57	7/1.35	1.00	1.4	16.0 x 9.67	40	3.08

Resistant To Corrosion

Aluminum Wires are inherently resistant to corrosion. This makes them an excellent wiring solution for outdoor installations.

High Abrasion Tolerance

Pressfit Aluminium Service Wires are resistant to abrasion because of their superior insulation. Consequently, they have a higher service life.

High Tensile Strength

Our service cables are made using H2 grade plain Aluminum conductors with high tensile strength. This makes the cables less prone to wear and tear.

Lightweight

Aluminium is one-third the weight of copper. Hence, even with lower conductivity, it becomes suitable for large installations commercially.

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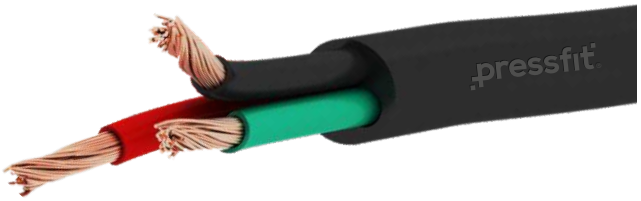
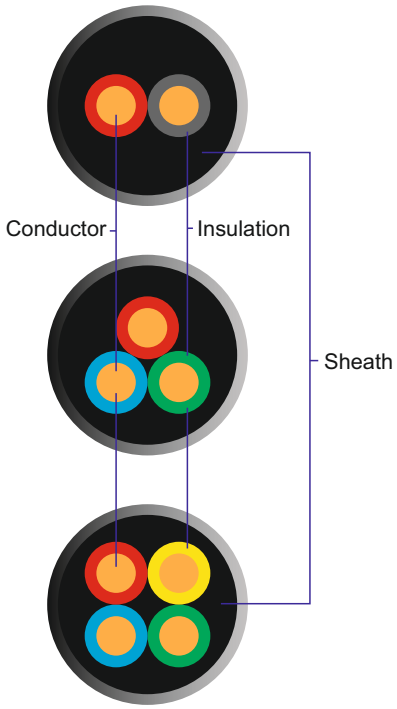
Multi-Core Industrial Cables

Light Duty Sheathed Copper Conductor Flexible Cables



Pressfit Multi-Core Industrial Cables are made from bright-annealed 99.97% pure bare copper wires with low conductor resistance. They are available in 2-core, 3-core, and 4-core variants. The sheath is coated with a specially formulated PVC mixture to not only make stripping easier but also to withstand all types of mechanical abrasion during use. It has a great tensile strength to work in all conditions and extend life.

Multi-core cables and wires are usually used for all kinds of industries and equipments, especially for those which require high performance and power. They have great flexibility with good heat dissipation, skin resistance and also resistance to fracture.



Ref. Std.: IS 694:2010 marked

Conductor: As per Class-5, IS 8130:2013

Insulation: IS 5831, Type D

Marking: Cables are printed with marking of Pressfit - (Core) (Size sq. mm) 1100 V with CM/L No. 3700245

Colours: 2 Core: Red & Black
3 Core: Red, Blue, & Green
4 Core: Red, Yellow, Blue, & Green colour PVC ST3 sheath

Packing: 100 mtrs length in poly pack, longer length available on request in wooden drums

Nominal Area of Conductor	No. of Strands / Nom. Dia. of Each Strand	Nominal Thickness of Insulation	Thickness of Sheath (Nominal)			Overall Diameter (Approx.)			Current Rating AC	Voltage drop/ Amp/ Meter		Max. Resistance of Conductor at 20°C
			2 Core	3 Core	4 Core	2 Core	3 Core	4 Core				
sq. mm	mm	mm	mm	mm	mm	mm	mm	mm	Amp	mV	mV	ohm/km
0.5	16/0.20	0.6	0.9	0.9	0.9	6.5	6.8	7.3	5	83	72	39.0
0.75	24/0.20	0.6	0.9	0.9	0.9	6.8	7.2	7.7	8	56	48	26.0
1	32/0.20	0.6	0.9	0.9	0.9	7.1	7.6	8.3	13	43	38	19.5
1.5	48/0.20	0.6	0.9	0.9	1.0	7.8	8.3	9.2	16	29	25	13.3
2.5	80/0.20	0.7	1.0	1.0	1.0	9.5	10.1	10.7	20	18	16	7.98
4	56/0.30	0.8	1.0	1.0	1.0	11	11.4	12.3	27	12	9.6	4.95
6	84/0.30	1.8	1.1	1.2	1.2	12.6	13	14.2	34	7.4	6.3	3.3
10	140/0.30	1.0	1.3	1.4	1.4	14.8	16	18	45	4.3	3.8	1.91
16	126/0.40	1.0	1.4	1.4	1.4	17.2	18.3	20.3	61	2.7	2.3	1.21

Anti-Rodent

Rodents can be a nuisance; they rip out the wires and cut off power supplies. However, this is not the case with Pressfit wires. They are equipped with Anti-Rodent properties to keep the rodents away from the wires and give them a longer lifespan.

Fire Retardant Properties

The PVC compounds used to insulate and sheathe Pressfit Industrial Cables have a high oxygen and temperature index that limits the spread of fire during fire emergencies.

High Conductivity

Our wires are made using electrolytic grade pure bare copper wire, which makes them highly conductive. This helps reduce power loss and save money on electrical bills.

Superior Insulation

Pressfit's Multi-Core Industrial Cables have an excellent insulation for individual wires as well as the overall combination. It makes them durable, and resistant to chemical reactions, abrasion, wear, and tear.

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3 Core Flat Submersible Cables

PVC Insulated and Sheathed for Submersible Use

3-Core Flat Submersible Cable consists of 3 insulated cores, which are laid next to each other and sheathed with black PVC. These cables are specially designed for underwater use or in damp environments. They are used to connect underwater submersible pump sets to power supply lines in the agriculture, irrigation, domestic & outdoor sectors.

Pressfit manufactures Submersible Cables with excellent insulation so that they are not affected by chemical, greasy, or liquid particles. It can withstand the adverse conditions of a humid environment. Thanks to the top-quality copper conductor cores, Pressfit's submersible cables offer the best performance at an affordable price point.

Ref. Std.: IS 694:2010 marked

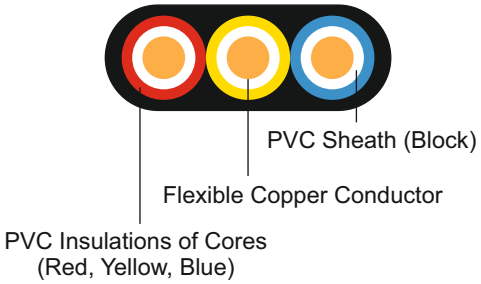
Conductor: As per Class-5, IS 8130:2013

Insulation: IS 5831, Type A+ PVC, HR PVC

Marking: Cables are printed with marking of Pressfit - (Core) (Size Sq.mm) 1100 V with CM/L No.3700245

Colours: Red, Yellow, Blue with Black colour PVC sheath

Packing: 500 / 1000 mtrs length drums



Nominal Area of Conductor	Nos. & Diameter of wire	Nominal Thickness of Insulation	Thickness of Sheath (Nominal)	Overall Diameter (Approx.)	Current Rating AC	Max. Resistance of Conductor at 20°C	Water Permeability / Penetration
sq. mm	Nos./ mm	mm	mm	mm	Amp	ohm/km	
1.5	22/0.30	0.60	0.9	10.1 x 4.7	13	12.1	Almost Nil
2.5	36/0.30	0.70	1.0	12.2 x 5.5	18	7.41	
4	56/0.30	0.85	1.0	14.6 x 6.5	24	4.95	
6	84/0.30	0.85	1.1	16.2 x 7.0	31	3.30	
10	80/0.40	1.05	1.4	20.2 x 8.5	42	1.91	
16	126/0.40	1.05	1.4	23.4 x 9.7	57	1.21	

Excellent Mechanical & Electrical Properties

Every electrical application requires durable and reliable electrical wiring. We manufacture high quality 3-core flat submersible cables that are endowed with excellent mechanical and electrical properties for an uninterrupted power supply in tough conditions.

High Conductivity

Our Wires are made using electrolytic grade pure bare copper wire, which makes them highly conductive. This helps reduce power loss and ensures lower electricity bills.

Superior Insulation

They consist of parallel, flat insulated cores that are provided with a superior sheathing. They possess high abrasion resistance, thermal stability, flexibility, and special additives .

High Abrasion Resistance

These cables are devised to power submersible pumps that are installed deep in the earth's surface to pump out the groundwater. This makes it necessary to have superior protection against abrasion due to the harsh and hostile conditions.

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Industrial Transparent Speaker Cables

Speaker cables are a pair of two transparent Wires used to make connections across speakers, audio amplifiers, and other audio components in offices, residential complexes, shopping malls, and stadiums.

Both Wires of the speaker cable are electrically identical, but for easier identification, one of the Wires is marked with a strip of Pressfit's bright orange tracer along the entire length of the cable. This way it becomes easy to identify the correct audio polarity.

Pressfit's Speaker Cables are manufactured using bright annealed bare copper (BC) conductors for a clear, distortion-free voice with low dB loss.

The electrical signals sent over these Wires get converted into mechanical movements, causing the cones of speakers and subwoofers to vibrate with the appropriate rhythm, volume, and frequency.

Factors Affecting The Quality Of Speaker Cables

Like all cables, Pressfit's Speaker cable has three main characteristics: capacitance, inductance, and resistance. Due to the nature of its application, resistance becomes very important. Most speaker systems today have an impedance between 4 Ω and 8 Ω.

As the resistance in the cable increases, it will gradually affect system performance and audiophiles are usually concerned about the change in the speaker's sound quality. Typically, the effects of the speaker cable are felt when the resistance of the cable approaches about 5% of the speaker impedance.

The resistance of the speaker cable can be altered by three main elements:

1. Length:

The resistance of the speaker cable is proportional to its length. So, the best practice is to keep the length as short as possible.

2. Cross-Sectional Area:

The cross-sectional area or gauge (AWG) of the speaker cable has a major impact. The smaller the cross-section, the higher the resistance. It is, therefore, wiser to always choose a cable with a larger area.

3. Conductor Material:

Copper is usually the standard choice of conductive material. It has very good conductivity, can be bent easily and the cost is quite acceptable. Oxygen-free copper theoretically offers better conductivity, but does not improve perceptible audio quality and is significantly expensive.

Conductor		Insulation			
Size (Sq. mm)	Max. Conductor Resistance at 20 Deg. C (Ohm/km)	Thickness of Insulation (in mm)	Width (in mm)	Height (in mm)	Web Dims (W x H)
0.50	39.0	0.6	4.45	2.0	0.5 x 0.4
0.75	26.0	0.6	5.45	2.5	0.5 x 0.4
1.00	21.4	0.7	6.05	2.8	0.5 x 0.4

Uniform Capacitance

The distance between two conductor cores is consistent over the entire length of the cable. This ensures even capacitance, more stable, and improved sound.

Super Voice Clarity

Thanks to its top-quality Copper conductor, Pressfit Speaker Cables keep up with the spirit of music enthusiasts and provide a clear, distortion-free voice with low dB loss.

Electrolytic Low-Resistance Copper

Depending on the hearing ability, the modulation of the resistance creates an audible effect for the listener. Lower resistance allows better activation of the speaker's voice coil.

Mesmerizing Aesthetics

Pressfit's Speaker Cables are insulated with a special formulation of transparent PVC compound designed specifically for their application. The transparent insulating material makes the bright copper core visible and offers the speaker cables a great aesthetic value.

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RG-6 Co-Axial Cable

RG-6 Coaxial cables are single-core electrical wires with a solid annealed copper core that is insulated with polyethylene and shielded with a metal foil. They are further encased with fine aluminum mesh to provide the necessary shielding against noise. Lastly, this entire structure is further insulated to keep it intact and protect it from abrasion and disruptions.

Pressfit RG-6 cables are manufactured from electrolytic grade bare copper conductor, which offers high conductivity and excellent data transfering ability. They carry higher frequency signals and are commonly used in LANs, televisions, automobiles, aircraft, and other industrial facilities. Because of their widespread use in television, they are also known as TV cables. Satellite and internet signals run at higher frequencies than traditional analog video. When TV broadcasts changed from analog to digital, and cable companies started switching to digital, the higher frequencies made it necessary to use a more effective coaxial cable. It has a larger conductor, which gives you much better signal quality. The dielectric insulation was made thicker as well. RG-6 is also made with a different kind of shielding, which allows it to more effectively handle different signals.

The inner conductor is thicker at 18 AWG copper center. This helps RG-6 cables provide longer distance proficiency and better bandwidth. The frequency range is better, which means if you are looking for a cable to serve the purpose of higher frequency range, RG-6 is your answer. RG-6 cables have low attenuation even though the cables are long.

The outer conductor in the coaxial cable is used to improve attenuation and shield effectiveness. This can further be enhanced with the use of a second foil or braid known as a jacket. The jacket is used as a protective cover from the environment and makes the overall coaxial cable a flame retardant.

They do not generate any external electric and magnetic fields and are not affected by them. This makes them ideal for transferring signals from point to point and point to multipoint applications.

75-ohm Flexible RG6 Coax Cable Double shielded with Black PVC Outer Sheath

CONFIGURATION	**ELECTRICAL**												
Inner Conductor Material: Electrolytic grade (99.97% pure copper) Annealed Bare Solid Conductor	Max Resistance of Solid Copper (Ohm/100m) at 200°C : 2.13												
Nominal Diameter of Copper (Inner): 1.02 mm	Nominal Capacitance (pf/m): 54												
Dielectric: Advanced FEP Foam	Nominal Impedance (Ohm): 75												
Nominal Diameter of Copper (Outer): 4.57mm	Velocity of Propagation (%): 85												
First Shield: Bonded Poly Aluminium Tape	Max Operating Frequency (Ghz): 1												
Second Shield: Aluminium Braid	**FREQUENCY MHZ**	50	90	175	210	340	400	450	500	600	700	800	900	1000
Min Coverage(%): > 60														
Outer Sheath: UV Resistant PVC, Black														
Nominal Diameter (mm): 7.0	**MAX ATTENUATION AT 200°C (db/100M)**	5.2	6.3	8.4	9.5	12.0	13.2	14.35	14.85	16.45	17.12	18.45	20.55	21.4
Min Bending Radius of cable (mm): 65														
Flooding Compound: Jelly														
Printing: Pressfit 75 OHM RG-6														

Low Signal Losses

A shorter cable has fewer losses than a longer one. Likewise, the thicker cables have lower losses than the thinner ones. Our cables are manufactured with excellent materials to keep signal loss as low as possible.

High Conductivity

They are made from electrolytic grade bare copper wire. They offer high conductivity, which ensures that the coaxial cables support high-quality data transmission.

Interference Immunity

With their excellent material characteristics, Pressfit 3-Core Flat Submersible Cables have a greater immunity to interference and ensure minimal distortion.

Higher Bandwidth

The bandwidth measures how much data can be transmitted along a communication channel. A higher bandwidth enables the transmission of signals over large network connections using various connecting devices.

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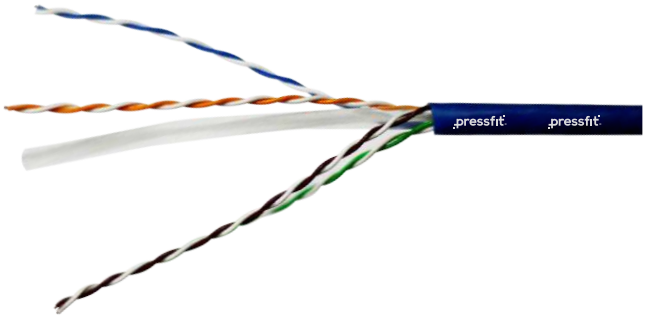
LAN Cables



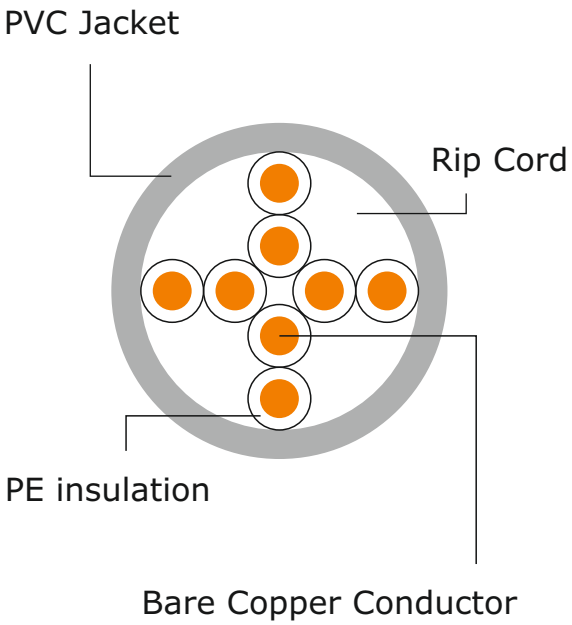
Cost-Saving and Reliable

Pressfit CAT 5E and CAT 6 LAN cables are manufactured using solid, bright annealed copper conductor, insulated with a high-density polyethylene compound. These offer low attenuation, low cross talk, and low return loss. They are also commonly referred to as Ethernet cables or simply, CAT cables.

It consists of 4 pairs of wires. Each pair has two twisted wires to reduce magnetic interference, which is responsible for data distortion. These cables give you high data transfer speeds with the capacity to carry high bit-rate signals over long distances.

Category 6 cable, commonly referred to as CAT 6, is a standardized twisted pair cable for Gigabit Ethernet and other physical network layers that is compatible with CAT5 / 5e. They offer stricter specifications for crosstalk and system noise.

Technical Data - Physical		
Conductor	–	Solid Bare Copper
Nom Diameter of Conductor	–	0.5 mm.
Insulation	–	Special grade PE
Colour Code Pair - 1 Pair - 2 Pair - 3 Pair - 4	 – – – –	 White - Blue White - Orange White - Green White - Brown
Outer Jacket Nom Overall Diameter	– –	FR PVC 5.4 mm.
Jacket Colour	–	Grey
Packaging	–	Reflex Box 1000 ft. (305 M)



Technical Data - Electrical				
Frequency MHz	**Attenuation dB 100 M (MAX)**	**Next Worst Pair dB (MIN)**		**Structural Return Loss (SRL) dB MIN**
		CAT-5	CAT-5e	
0.772	1.8	64	64	N. A.
1.00	2.0	62	62.3	23
4.00	4.1	53	53.3	23
8.00	5.8	48	48.8	23
10.00	6.5	47	47.3	23
16.00	8.2	44	44.3	23
20.00	9.3	42	42.8	23
25.00	10.4	41	41.3	22
31.25	11.7	39	39.9	21
62.50	17.0	35	35.4	18
100.00	22.0	32	32.3	16

Parametric Characteristics		
DC Resistance @ 20°C (Max)	–	9.38 Ω / 100 M
Capacitance Unbalance Pair to Ground (MAX)	–	330 pF / 100 M
Mutual Capacitance (Max)	–	5.60 nF / 100 M
Characteristics Impedance	–	100 ± 15 Ω
Nominal Velocity of Propagation	–	66%
Delay Skew (Max)	–	45 ns
ProPagation Delay @ 20°c, 100 MHz	–	538 ns / 100 M

Low Bit Error Rate

Bit Error Rate is a simple metric used to describe the quality of the data transmission. It can be affected by interference, transmission power, bandwidth, modulation, etc in a communication system. A low BER significantly improves the data transfer experience.

Excellent Noise Immunity

With their excellent material characteristics, Pressfit LAN Cables have a greater immunity to interference and ensure minimal distortion.

High-Speed Data Transfer

Pressfit LAN cables are made from solid, bright annealed bare copper, supporting high data transfer speeds of up to 1000Mbps.

Greater Twist Per Length

More twisting of the LAN cable reduces crosstalk and internal interference. They are also shielded with a metal foil to contain quality degradation due to external interference. This significantly contributes to improving the quality of data transmission in a particular communication system.

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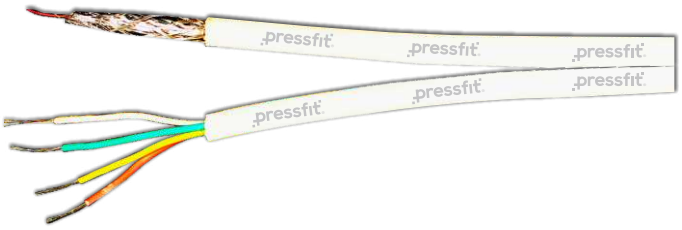
CCTV Cables (3+1, 4+1)



CCTV Cables are composite structures of video and audio wires designed to monitor the entire area using video cameras. Pressfit CCTV cables are available in two ranges: 3 + 1 CCTV cables and 4 + 1 CCTV cables in Special Parallel and Round White shape. They consist of 1 coaxial cable and 3 or 4 twisted pairs of wires, respectively.

Coaxial cables (75 ohms coax) act as a carrier for the transmission of video signals, while the other 3 or 4 cores carry the power supply. Pressfit coaxial cables provide great video transmission quality with minimal distortion or attenuation, making them an excellent choice for CCTV networks. With Pressfit's CCTV Cables, you can truly utilize the true potential of your CCTV cameras.

CO-AXIAL CABLE

PARTICULARS	3+1 CCTV	4+1 CCTV
CONDUCTOR		
Material	Annealed Bare Copper	Annealed Bare Copper
No. of Wires/Dia. of Wires	0.80 + 0.002	0.80 + 0.002
INSULATION		
Material	Gas injected Polythylene	Gas injected Polythylene
Thickness of insulation (Nom.)	1.30mm	1.30mm
Dia of insulation	3.50 + 0.20	3.50 + 0.20
OVERALL SHIELDED (BRAIDED)		
Material	AI. Foil - 100%	AI. Foil - 100%
Material	Alum. Alloy	Alum. Alloy
Coverage	55%	55%
FLOODING COMPOUND	Petroleum Jelly	Petroleum Jelly

OUTER SHEATH

PARTICULARS	3+1 CCTV	4+1 CCTV
Material	PVC	PVC
Dia. of Sheath	5.50mm +0.20mm	5.50mm + 0.20mm
CONDUCTOR		
Material	Annealed Tinned Copper	Annealed Tinned Copper
No. of wire/Dia. of wire	14/0.13 + 0.002	14/0.13 + 0.002
INSULATION		
Material	PVC - Type - A	PVC - Type - A
Thickness of Insulation (Nom.)	0.3	0.3
Dia of Insulation	1.40mm	1.40mm

FINAL CABLE

PARTICULARS	3+1 CCTV	4+1 CCTV
BARRIER TAPE		
Thickness of Tape	25 Micron	25 Micron
Coverage	100%	100%
OUTER SHEATH		
Material	PVC - ST - 1	PVC - ST - 1
Thickness of Sheath (Nom.)	0.90mm	0.90mm

Superior Insulation

Pressfit CCTV cables are provided with excellent sheath insulation, which further enhances the safety of these wires.

Saves Money

Pressfit CCTV Cables are made using electroytic-grade bare copper conductor that ensures lower power loss as well as greater reliability for your surveillance system.

Eliminate Interference

They are devised to optimize the quality of video signals. The dense metallic shield ensures complete elimination of electromagnetic interference (EMI) from the video signals and offers a low-resistance path. The multi-strand composition gives them better flexibility and a smaller bending radius.

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Twin-Parallel Flat Cables

Available Sizes: 14/60, 23/60, 40/60.

Twin Parallel Flat Cable consists of two-conductor cores that are insulated with PVC compound and mainly used for supplying power for household and industrial applications. They are manufactured using bright electrolytic copper conductors that offer high conductivity, flexibility, and uniform resistance. They also have a fine gap between the two cores, which is taken up by the PVC insulation. It affixes both the insulated cores parallelly and can be torn to create two flexible ends of copper wires.

Both wires of the cable are electrically identical, but for easier identification, one of the wires is marked with a bright red tracer along the entire length of the cable. This way, it becomes easy to identify the correct polarity.

Easy To Strip

Easy to strip Wires and cables help to save time. You don't have to use much force to undress the conductor cores of Pressfit Twin Parallel Flat Cable.

High Conductivity

They are manufactured using electrolytic grade bare copper wire that offers excellent conductivity. This makes our Cables long-lasting due to its excellent mechanical and electrical properties.

Superior Insulation

Pressfit Twin-Parallel Flat Cables are sheathed with excellent PVC compounds that provide superior protection against abrasion caused by the external environment. The PVC insulation used on the cable provides flexibility, ease of use, and chemical isolation required for longer service life.

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PVC Twin-Twisted Flexible Wires

Available Sizes: 14/42, 18/42, 23/42, 30/42, 40/42

Twin Twisted Flexible Wire comprises of two copper conductor cores, coated with PVC. The wires are twisted around each-other for the entire length. Each wire is individually insulated to provide the maximum combined insulation barrier between the conductors. This ensures that conducting paths are well insulated with all the components. The PVC overlay also provides a tough, reliable, and protective coating.

They are prevalently used during festivals with bright lighting installations or in rural areas for temporary wiring of lighting fixtures and small appliances.

Ease Of Wiring

Instead of buying two wires for Live and Neutral lines, T/T Wires are much more convenient.

Cost-Saving

Pressfit PVC T/T wires offer a pocket-friendly but reliable wiring solution to your temporary electrical requirements.

Suited for Temporary Wiring

Pressfit Twin-Twisted Flexible Wires can be used as a simple solution to provide a temporary power supply for lighting the bulb and making connections across fans, festival lights, etc.

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Telephone Wires

Pressfit telephone pair and switchboard cables are made using top-quality copper conductor with uniform dimensions that are consistent over the entire length of the cable. They offer consistent performance to meet the need for secure and reliable data transmission.

The features that distinguish Pressfit Telephone & Switchboard Cables from others are high-temperature resistance, ability to withstand emergency overload, and excellent signal transmission. Pressfit Telephone Wires are devised to eliminate crosstalk and achieve improved speech transmission with absolute clarity.

As the name suggests, the primary application is for telephone, intercom, and PBX systems.

They are available in two variants
0.41 mm Bare Copper Tapped With Thread
0.51 mm Tinned Copper Tapped With Thread

Electrical Parameters

Conductor Resistance :	92.20 ohm / km max at 200C
Mutual Capacitance :	50 nF / km max.
Insulation Resistance in Air :	10000 M-ohm / km min.
Capacitance Unbalance – pair to pair :	230 pF / 100m max.
Capacitance Unbalance – pair to ground :	330 pF / 100m max.
Resistance Unbalance :	2.5% max.

Conductor Parameters	1 Pairs	2 Pairs	3 Pairs	4 Pairs	5 Pairs	10 Pairs
Conductor (solid annealed bare copper)	0.4mm diameter (nom.) & 0.5mm diameter (nom)					
Insulation Material (0.4 & 0.5 mm dia)	High density polyethylene(HDPE)					
Insulation Thickness (Average) 0.4 mm dia, 0.5mm dia	0.17mm, 0.20mm					
Diameter of insulated Conductor 0.4mm dia, 0.5mm dia	0.74mm, 0.92mm					
Rip cord	Nylon					
Colour Combination	For 0.4mm dia & 0.5mm dia					
1 Pairs	-	-	-	-	-	White-Blue
2 Pairs		-	-	-	-	White-Orange
3 Pairs			-	-	-	White-Green
4 Pairs				-	-	White-Brown
5 Pairs					-	White-Grey
6 Pairs						White-Blue
7 Pairs						White-Orange
8 Pairs						White-Green
9 Pairs						White-Brown
10 Pairs						White-Grey

Great Voice Clarity

Pressfit telecommunications cables are made of bare, electrolytic grade copper wire that provides high conductivity. The uniform twisting of the insulated wire pairs over the length of the cable ensures minimum disturbance. As a result, they transmit crystal clear voice.

Minimum Crosstalk

These cables are made from solid annealed tinned/bare copper. These isolated cores are evenly twisted and bundled in pairs to minimize crosstalk between them.

High Humidity Tolerance

Pressfit Telephone Cables are also available with tinned copper. This makes them impervious to moisture, high humidity and temperature.

Superior Insulation

Pressfit Telephone Wires consist of parallel, flat insulated cores that are provided with a superior sheathing. They possess high abrasion resistance, thermal stability, flexibility, and special additives. They provide the necessary protection against wear and tear caused by external abrasive environment.

Clientele

Private Partners

L&T Construction
Buildings & Factories

SHIRKE®
QUALITY | TECHNOLOGY | CUSTOMER SATISFACTION

VASCON

Shapoorji Pallonji
Built to last... since 1865

Jio

TATA HOUSING

LODHA
BUILDING A BETTER LIFE

Rustomjee®

Indiabulls

REGENCY GROUP
Linking People, Building Trust

NYATI

MOHAN GROUP
concrete steps to the future

THARWANI INFRASTRUCTURES
ASPIRING FOR BETTERMENT

SAMRAAT
POWER OF IMAGINATION
Real Estate | Infrastructure | Hospitality

Public Departments

MINISTRY OF DEFENCE

INDIAN RAILWAYS

CPWD

CIDCO
WE MAKE CITIES

PUBLIC WORKS DEPARTMENT
PWD
MAHARASHTRA

भारतीय डाक
India Post

HAL

NTPC

OFB

NHPC

INDIAN ORDNANCE FACTORIES

Border Roads Organisation

भारतीय खाद्य निगम

INDIA

आर सी एफ

MAHARASHTRA INDUSTRIAL DEVELOPMENT CORPORATION
MIDC

MSPHC

MSSDS

एस टी
महाराष्ट्र राज्य परिवहन

म्हाडा
MHADA

बेस्ट

pressfit®

30 Years of Quality Solutions

Pressfit has been a trusted name in the field of domestic electrical wiring for over three decades. After establishing itself as one of India's leading brands of electrical wiring accessories, Pressfit ventured into manufacturing wires and cables in 2010.

Using electrolytic-grade copper and specialized PVC insulation with Anti-Rodent, Anti-Termite, and Low Smoke Emission properties, Pressfit's SFT1 Building Wires put first, what's most important: **Safety.**

Terms & Conditions:

1. Products will be supplied in their standard packaging.
2. Disputes, if any, will be subject to Ulhasnagar jurisdiction only.
3. We continuously upgrade our products and technology to provide our customers with the best experience. Due to this, the product design, specifications, or packaging, may change without prior notice.

Press Fit Pipe And Profile

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