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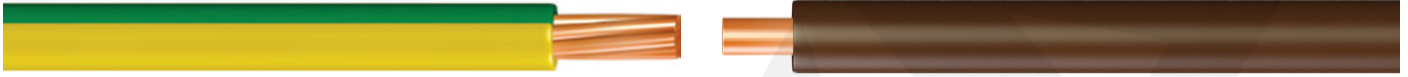


BUILDING WIRES & INSTALLATION CABLES

Content of Building Wires & Installation Cables

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- * *450/750V HFFR(LSOH) Insulated Single Core Cables*
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- * *300/500V HFFR(LSOH) Insulated & Sheathed Multi Core Flexible Cables*
- * 300/500V HFFR(LSOH) Insulated & Sheathed Multi Core Cables

450/750V PVC INSULATED SINGLE CORE CABLES



TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Max. Short Circuit Temperature: 160°C (max. 5 sec.)
- Rated Voltage: 450/750V
- Min. Bending Radius: 6x Cable Outer Diameter
- Production Standards: IEC 60227, EN 50525-2-31
HD 21.3 S3, VDE 0281, BS 6004

CONSTRUCTION

Conductor: Solid Class 1 (Up to 10mm² Section) or
Stranded Class 2 Copper as per IEC 60228

Insulation: PVC insulation material

*PVC Insulation material up to for 90°C continuous operation
also available upon special request.

CODE of CABLE

- Cu/PVC; Conduit Wire; H07V-U; H07V-R; H07V2-R

APPLICATION

These cables refer to PVC insulated Single Core Cables Building Wire with a rated voltage of 450/750V. These cables used for indoor fixed installations in dry locations, in switchboards and distributors, installed in surface mounted or embedded conduits, or flush mounted in stationary plants, dry places, distribution boards, and closed spaces like factories, workshops, and any kind of workplaces.

SECTION RANGE

- **For Solid Class1 Copper Conductor:**
From 1.5mm² up to 6mm²
- **For Stranded Class2 Copper Conductor:**
From 1.5mm² up to 630mm²

450/750V PVC INSULATED SINGLE CORE FLEXIBLE CABLES



TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Max. Short Circuit Temperature: 160°C (max. 5 sec.)
- Rated Voltage: 450/750V
- Min. Bending Radius: 12x Cable Outer Diameter
- Production Standards: IEC 60227, EN 50525-2-31
HD 21.3 S3, VDE 0281, BS 6004

CONSTRUCTION

Conductor: Multi stranded/Flexible
Class 5 Copper as per IEC 60228

Insulation: PVC insulation material

*PVC Insulation material up to for 90°C continuous operation
also available upon special request.

CODE of CABLE

- Cu/PVC Flex; Panel Wire; H07V-K; H07V2-K

APPLICATION

These cables refer to PVC Insulated Single Core Flexible Cables/Panel Wires with a rated voltage of 450/750V. These cables used for panel wiring for use in the switch control, relay, and instrumentation panels of power switchgear and for purposes such as internal connectors in rectifier equipment, motor starters, and controllers. These cables cannot be used for installations under the wall surface.

SECTION RANGE

- From 1.5mm² up to 400mm²

300/500V PVC INSULATED MULTI CORE CABLES



TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Max. Short Circuit Temperature: 160°C (max. 5 sec.)
- Rated Voltage: 450/750V
- Min. Bending Radius: 12x Cable Outer Diameter
- Production Standards: IEC 60227, EN 50525-2-31
HD 21.3 S3, VDE 0281, BS 6004

CONSTRUCTION

Conductor: Solid Class 1 or Stranded Class 2 Copper as per IEC 60228

Insulation: PVC insulation material

Outer Sheath: PVC Outer sheath material

CODE of CABLE

- Cu/PVC/PVC; NYM; NVV

APPLICATION

These cables refer to PVC insulated PVC Sheathed Multi Core Installation Cables with a rated voltage of 300/500V.

These cables used for internal fixed installation in domestic commercial or industrial settings. They can be used in dry damp or wet environments but not suitable for installation directly into concrete or in sunlight without additional protection.

SECTION RANGE

- **For the Power Cables with Copper Conductor:**
From 1.5mm² up to 6mm²
- **For the Power Cables with Aluminium Conductor:**
From 1.5mm² up to 25mm²

CONDUCTOR QUANTITY

- **From 2 Cores up to 7 Cores**

COLOUR CODE of CABLE

- Insulation Colours code will be according to the International Standards or customer's request/demand.
- Outer Sheath Colour could be Black or Grey according customer's request/demand.

300/500V PVC INSULATED MULTI CORE FLAT CABLES



TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Max. Short Circuit Temperature: 160°C (max. 5 sec.)
- Rated Voltage: 300/500V
- Min. Bending Radius: 12x Cable Outer Diameter
- Production Standards: IEC 60227, HD 21.4 S2
VDE 0250, BS 6004

CONSTRUCTION

Conductor: Solid Class 1 or Stranded Class 2 Copper
as per IEC 60228

Insulation: PVC insulation material

Outer Sheath: PVC outer sheath material

CODE of CABLE

- Cu/PVC/PVC FLAT; FLAT NYM; FLAT NVV

APPLICATION

These cables refer to PVC insulated PVC Sheathed Multi Core Flat Installation Cables with a rated voltage of 300/500V. These cables use the surface mounted or flush mounted for internal fixed installation in domestic, commercial, or industrial settings. They can be used in dry, damp, or wet environments but not suitable for installation directly into concrete or in sunlight without additional protection.

SECTION RANGE

- **With Solid Class 1 Copper Conductor:**
From 1.5 mm² up to 10 mm²
- **With Stranded Class 2 Copper Conductor:**
From 1.5 mm² up to 25 mm²

CONDUCTOR QUANTITY

- **From 2 Cores up to 7 Cores**

COLOUR CODE of CABLE

- Insulation Colours code will be according to the International Standards or customer's request/demand.
- Outer Sheath Colour could be White or Black or Grey according customer's request/demand.

300/500V PVC INSULATED MULTI CORE FLAT TWIN & EARTH CABLES



TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Max. Short Circuit Temperature: 160°C (max. 5 sec.)
- Rated Voltage: 300/500V
- Min. Bending Radius: 12x Cable Outer Diameter
- Production Standards: BS 6004

CONSTRUCTION

Conductor: Solid Class 1 or Stranded Class 2 Copper as per IEC 60228

Insulation: PVC Insulation material

Outer Sheath: PVC Outer sheath material

CODE of CABLE

- 6241Y, 6242Y, 6423Y; 6244Y; Twin & Earth Cable;
Flat Twin & Earth Cable

APPLICATION

These cables refer to Twin and Earth or Flat Twin and Earth Cables with a rated voltage of 300/500V. These cables used in fixed wiring installations in dry or damp premises clipped to surface, on trays, or in free air where there is no risk of mechanical damage. It is suitable for laying in conduit or trunking where mechanical protection is required. Twin and Earth cable is a general fixed wiring and lighting cable, containing three conductors. As the name suggests, there is a pair of Twin current-carrying conductors, both individually insulated, and one bare conductor which is the central protective circuit on earth.

SECTION RANGE

- **For the Power Cables with Copper Conductor:**
From 1.5mm² up to 10mm²
- **For the Power Cables with Aluminium Conductor:**
From 1.5mm² up to 10mm²

CONDUCTOR QUANTITY

- **From 2 cores up to 4 cores**

COLOUR CODE of CABLE

- Insulation Colours code will be according to the International Standards or customer's request/demand.
- Outer Sheath Colour could be Black or Grey according customer's request/demand.
- Insulation and Outer Sheath could be HFFR/LSZH materials according to customer's request

300/500V PVC INSULATED MULTI CORE FLEXIBLE CABLES



TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Max. Short Circuit Temperature: 160°C (max. 5 sec.)
- Rated Voltage: 300/500
- Min. Bending Radius: 6x Cable Outer Diameter
- Production Standards: IEC 60227, HD 21.5 S3, EN 50525-2-11, VDE 0281, BS 6500

CONSTRUCTION

Conductor : Multi stranded/Flexible Class 5 Copper as per IEC 60228

Insulation: PVC insulation material

Outer Sheath: PVC Outer Sheath material

CODE of CABLE

- Cu/PVC/PVC ; H03VV-F, H05VV-F, NYMH-rd

APPLICATION

These cables refer to PVC insulated PVC Sheathed Multi Core Flexible Installation Cables with a rated voltage of 300/500V. These cables used to suitable in dry and humid locations for connections of electrical appliances submitted to medium level mechanical strength, like washing machines, refrigerators, etc. Suitable for heating appliances provided that there is no risk of contact with hot parts.

SECTION RANGE

- From 1mm² up to 25mm²

CONDUCTOR QUANTITY

- From 2 Cores up to 7 Cores

COLOUR CODE of CABLE

- Insulation Colours code will be according to the International Standards or customer's request/demand.
- Outer Sheath Colour could be Black, White or Grey according customer's request/demand.
- Outer Sheath could be HFFR/LSZH materials according to customer's request

300/500V PVC INSULATED MULTI CORE FLEXIBLE FLAT CABLES



TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Max. Short Circuit Temperature: 160°C (max. 5 sec.)
- Rated Voltage: 300/500V
- Min. Bending Radius: 6x Cable Outer Diameter
- Production Standards: IEC 60227-6, EN 50525-1-11
BS 500, HD 21.5 S3, VDE 0281-5

CONSTRUCTION

Conductor: Multi stranded/Flexible Class 5 Copper as per IEC 60228

Insulation: PVC insulation material

Outer Sheath: PVC Outer Sheath material

CODE of CABLE

- Flex Cu/PVC/PVC Flat Cable; H05VVH2-F; 219Y/3197

APPLICATION

These cables refer to PVC insulated PVC Sheathed Multi Core Flat Cables with Flexible Conductors with a rated voltage of 300/500V. These Cables to be used in domestic premises, kitchens, offices for household appliances, including in damp premises for medium duties as washing machines, spin dryers, and refrigerator.

SECTION RANGE

- From 1.5mm² up to 25mm²

CONDUCTOR QUANTITY

- From 2 Cores up to 7 Cores

COLOUR CODE of CABLE

- Insulation Colours code will be according to the International Standards or customer's request/demand.
- Outer Sheath Colour could be Black, White or Grey according customer's request/demand.

300/500V PVC INSULATED MULTI CORE FLEXIBLE COLD RESISTANT CABLES



TECHNICAL DATA

- Max. Operating Temperature: -40°C to +70°C
- Max. Short Circuit Temperature: 160°C (max. 5 sec.)
- Rated Voltage: 300/500V
- Min. Bending Radius: 12x Cable Outer Diameter
- Production Standards: IEC 60227, EN 50525 2-11
BS 6004

CONSTRUCTION

Conductor: Multi stranded/Flexible Class 5 Copper as per IEC 60228

Insulation: Arctic grade PVC insulation material

Outer Sheath: Arctic grade PVC Outer Sheath material

CODE of CABLE

- Flex Cu/PVC/PVC Cold Resistant; 318-A PVC Cable

APPLICATION

These cables refer to PVC insulated PVC Sheathed Multi Core Flexible Cold Resistant/Arctic Cables with a rated voltage of 300/500V. These cables are manufactured designed to withstand severe external temperatures. These Arctic PVC cables, insulated and sheathed in a polymer designed to remain flexible at temperatures as low as -40° Celsius, are particularly suitable for outdoor applications and for use where flexibility is required at sub-zero temperatures. At room temperature, Cold Resistant/Arctic Grade cable is very flexible, offering some of the characteristics usually found in elastomeric cables.

SECTION RANGE

- From 1.5mm² up to 25mm²

CONDUCTOR QUANTITY

- From 2 Cores up to 7 Cores

COLOUR CODE of CABLE

- Insulation Colours code will be according to the International Standards or customer's request/demand.
- Outer Sheath Colour could be Blue, Black, White or Grey according customer's request/demand.

300/500V PVC INSULATED MULTI CORE FLEXIBLE HEAT RESISTANT CABLES



TECHNICAL DATA

- Max. Operating Temperature: 90°C
- Max. Short Circuit Temperature: 160°C (max. 5 sec.)
- Rated Voltage: 300/500V
- Min. Bending Radius: 12x Cable Outer Diameter
- Production Standards: IEC 60227, HD 21.12
VDE 0281-1, BS EN 50525-2-11

CONSTRUCTION

Conductor: Multi stranded/Flexible Class 5 Copper as per IEC 60228

Insulation: PVC insulation material

Outer Sheath: PVC Outer Sheath material

CODE of CABLE

- Flex Cu/PVC/PVC Heat Resistant; H05V2V2-F; 309-Y PVC Cable

APPLICATION

These cables refer to PVC insulated PVC Sheathed Multi Core Flexible Heat Resistant Cables with a rated voltage of 300/500V. These cables are suitable for domestic premises, kitchen, office for light service, or light portable apparatuses. With their special insulation and sheath compounds, these cables are adapt for apparatus in kitchen and heating and for use in zones with high temperature (like lighting system apparatuses) without contact with warm parts and radiations. Unsuitable for outdoor use, in industrial and agricultural buildings or non-domestic portable tools. The maximum conductor temperature in normal use: 90°C. While high-temperature use, skin contact must be avoided.

SECTION RANGE

- From 1.5mm² up to 25mm²

CONDUCTOR QUANTITY

- From 2 cores up to 7 cores

COLOUR CODE of CABLE

- Insulation Colours code will be according to the International Standards or customer's request/demand.
- Outer Sheath Colour could be Yellow, Black, White or Grey according customer's request/demand.

450/750V HFFR(LSOH) INSULATED SINGLE CORE CABLES



TECHNICAL DATA

- Max. Operating Temperature: 90°C
- Max. Short Circuit Temperature: 250°C (max. 5 sec.)
- Rated Voltage: 26/45kV (Um: 54.000V)
- Min. Bending Radius: 15x Cable Outer Diameter
- Production Standards: IEC 60502-2; VDE 0276-620

CONSTRUCTION

Conductor: Solid Class 1 (Up to 10mm² Section) or Stranded Class 2 Copper as per IEC 60228

Insulation: HFFR insulation material

CODE of CABLE

- Cu/HFFR; H07Z-U; H07Z-R; H07Z1-R; 6491B Cables

APPLICATION

These cables refer to HFFR insulated Single Core cables Building Wires with a rated voltage of 450/750V. These cables used in energy networks in refineries, mines, hotels, schools, tunnels, high constructions, hospitals, power plants, data processing centers, business centers particularly for situations in which low emissions of smoke and acid gas is required in case of burning and where there is a risk of fire.

SECTION RANGE

- For the Power Cables with Copper Conductor:
From 1.5mm² up to 10mm²
- For the Power Cables with Aluminium Conductor:
From 1.5mm² up to 630mm²

450/750V HFFR(LSOH) INSULATED SINGLE CORE FLEXIBLE CABLES



TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Max. Short Circuit Temperature: 160°C (max. 5 sec.)
- Rated Voltage: 450/750V
- Min. Bending Radius: 6x Cable Outer Diameter
- Production Standards: EN 50525-3-41, BS 50525-3-41

CONSTRUCTION

Conductor: Multi stranded/Flexible Class 5 Copper
as per IEC 60228

Insulation: HFFR insulation material

CODE of CABLE

- Flex Cu/HFFR; H07Z-K; 2491B/6701B

APPLICATION

These cables refer to HFFR insulated Single Core Flexible Cables/Panel Wires with a rated voltage of 450/750V. These cables used for installations in dry environments for wiring of lighting fixtures, tools, and other devices in facilities where human lives or valuable property need to be protected against damages caused by fire. Laid on or under the plaster, same as in closed installation canals. For inner wiring of switchboards and control panels up to the nominal voltage of 750/1000 V.

SECTION RANGE

- From 1.5mm² up to 400mm²

300/500V HFFR(LSOH) INSULATED & SHEATED MULTI CORE FLEXIBLE CABLES



TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Max. Short Circuit Temperature: 160°C (max. 5 sec.)
- Rated Voltage: 300/500V
- Min. Bending Radius: 6x Cable Outer Diameter
- Production Standards: EN 50525-2-11
BS EN 50525-2-11

CONSTRUCTION

Conductor: Multi stranded/Flexible Class 5 Copper as per IEC 60228

Insulation: HFFR (LSZH) insulation material

Outer Sheath: HFFR (LSZH) Outer Sheath material

CODE of CABLE

- For the Cables with Copper Conductor: H05Z1Z1-F;
318B Cables

APPLICATION

These cables refer to HFFR insulated HFFR Sheathed Multi Core Flexible Installation Cables with a rated voltage of 300/500V. These cables used to suitable in premises where is requested a low level of smoke and corrosive gases emission in case of fire or burning. Use in domestic premises and offices. Suitable for ordinary duty applications and household appliances, including damp premises as vacuum cleaners, washing machines, tumble dryers, and refrigerators. Temporary short-term outdoors use allowed. Not suitable for use with cooking and heating appliances with the risk of contact with hot parts and at very high temperature in lighting devices. Cables not providing circuit integrity in case of fire.

SECTION RANGE

- From 1mm² up to 25mm²

CONDUCTOR QUANTITY

- From 2 Cores up to 7 Cores

COLOUR CODE of CABLE

- Insulation Colours code will be according to the International Standards or customer's request/demand.
- Outer Sheath Colour could be Black, White or Grey according customer's request/demand.

300/500V HFFR(LSOH) INSULATED & SHEATHED MULTI CORE CABLES



TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Max. Short Circuit Temperature: 160°C (max. 5 sec.)
- Rated Voltage: 300/500V
- Min. Bending Radius: 12x Cable Outer Diameter
- Production Standards: DIN VDE 0250 -214
Flame Retardant Acc. to BS EN/IEC 60332-3-24

CONSTRUCTION

Conductor: Solid Class 1 or Stranded Class 2 Copper as per IEC 60228

Insulation: Cross Linked HFFR insulation material

Outer Sheath: Cross Linked HFFR Outer sheath material

CODE of CABLE

- Flex Cu/HFFR; H07Z-K; 2491B/6701B

APPLICATION

These cables refer to Cross-Linked HFFR Insulated/ Sheathed Multi-Core Installation Cables with a rated voltage of 300/500V. These cables are suitable for application in households and industries, in facilities where human lives or valuable property need to be protected against damages caused by fire. Recommended for public buildings frequented by a lot of people, and for buildings of high material value, for industrial complexes, electric power plants, transformer stations, municipal facilities, hotels, shopping malls, hospitals, schools, airports, underground railways, and similar. Laid in, on or under the plaster, in walls or in concrete, directly or in cable canals, without special mechanical protection, but not in dry or pre-stressed concrete. Suitable for dry, damp, or wet environment, for internal or outdoor application (only if the cable is protected against direct sunlight).

SECTION RANGE

- **With Solid Class 1 Copper Conductor:**
From 1.5mm² up to 10mm²
- **With Stranded Class 2 Copper Conductor:**
From 1.5mm² up to 25mm²

CONDUCTOR QUANTITY

- **From 2 cores up to 7 cores**

COLOUR CODE of CABLE

- Insulation Colours code will be according to the International Standards or customer's request/demand.
- Outer Sheath Colour could be Black or Grey according customer's request/demand.

