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LOW VOLTAGE POWER CABLES

Content of Low Voltage Power Cables

demka@demkaexport.com

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PVC INSULATED, PVC SHEATHED 0,6/1kV COPPER POWER CABLES

TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Max. Short Circuit Temperature: (max. 5 sec.)
- Cross section ≤ 300 mm²: 160°C
- Cross section > 300 mm²: 140 °C
- Rated Voltage: 0,6/1kV (Um: 1200V)
- Min. Bending Radius: 12x Cable Outer Diameter
- Production Standard: IEC 60502-1, VDE 0276-603, BS/EN 60502-1

CONSTRUCTION

Conductor: Stranded or Shaped Round Class 2 Copper conductor as per IEC 60228

* For sections between 1.5mm² – 10mm²; Solid Round Class 1 conductor can be also supplied upon request.

Insulation: PVC insulation material. Thickness shall be as per IEC 60502-1

Outer Sheath: PVC outer sheath material. Thickness shall be as per IEC 60502-1

* PVC Insulation/Outer Sheath material up to for 105°C continuous operation also available upon special request.

CODE of CABLE

- **Cu/ PVC/PVC; NYY; YVV**

APPLICATION

These cables refer to PVC insulated, PVC sheathed power cables with a rated voltage of 0,6/1kV. These cables used for electricity supply in a low voltage installation system. They are suitable for installation indoors, outdoors,underground, in cables ducts and power and switching stations, local energy distributions, industrial plants, and places where is no risk of mechanical damage.

SECTION RANGE

- **From 1.5mm² up to 630mm²**

CONDUCTOR QUANTITY

- **For the Power Cables Copper Conductor:** From 1 Core up to 5 Cores
- **For the Control Cables Copper Conductor:** From 5 Cores up to 48 Cores

COLOUR CODE of CABLE

- Insulation Colours code could be according to the International Standards or customer's request/demand.

FIRE PERFORMANCE Of CABLE SHEATHS

- Cables can be supplied with special flame retardant PVC outer sheath to comply with the flame test requirements of IEC 60332 Category A-B and C.

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PVC INSULATED, PVC SHEATHED 0,6/1kV ALUMINIUM POWER CABLES

TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Max. Short Circuit Temperature: (max. 5 sec.)
- Cross section ≤ 300 mm²: 160°C
- Cross section > 300 mm²: 140 °C
- Rated Voltage: 0,6/1kV (Um: 1200V)
- Min. Bending Radius: 12x Cable Outer Diameter
- Production Standard: IEC 60502-1, VDE 0276-603, BS/EN 60502-1

CONSTRUCTION

Conductor: Stranded or Shaped Round Class 2 Aluminium conductor as per IEC 60228

* For sections between 1.5mm² – 10mm²; Solid Round Class 1 conductor can be also supplied upon request.

Insulation: PVC insulation material. Thickness shall be as per IEC 60502-1

Outer Sheath: PVC outer sheath material. Thickness shall be as per IEC 60502-1

* PVC Insulation/Outer Sheath material up to for 105°C continuous operation also available upon special request.

CODE of CABLE

- **Al/PVC/PVC; NAYY; YAVV**

APPLICATION

These cables refer to PVC insulated, PVC sheathed power cables with a rated voltage of 0,6/1kV. These cables used for electricity supply in a low voltage installation system. They are suitable for installation indoors, outdoors,underground, in cables ducts and power and switching stations, local energy distributions, industrial plants, and places where is no risk of mechanical damage.

SECTION RANGE

- **From 10mm² up to 630mm²**

CONDUCTOR QUANTITY

- **From 1 Core up to 5 Cores**

COLOUR CODE of CABLE

- Insulation Colours code could be according to the International Standards or customer's request/demand.

FIRE PERFORMANCE Of CABLE SHEATHS

- Cables can be supplied with special flame retardant PVC outer sheath to comply with the flame test requirements of IEC 60332 Category A-B and C.

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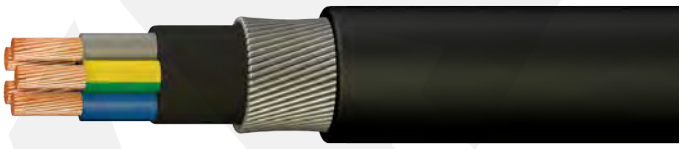
PVC INSULATED, PVC SHEATHED ARMOURED 0,6/1kV COPPER POWER CABLES



TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Max. Short Circuit Temperature: (max. 5 sec.)
- Cross section ≤ 300 mm2: 160°C
- Cross section > 300 mm2: 140 °C
- Rated Voltage: 0,6/1kV (Um: 1200V)
- Min. Bending Radius: 15x Cable Outer Diameter
- Production Standard: IEC 60502-1, VDE 0271

CONSTRUCTION

Conductor: Stranded or Shaped Round Class 2 Copper conductor as per IEC 60228

For sections between 1.5mm² – 10mm²; Solid Round Class 1 conductor can also be supplied upon request.

Insulation: PVC insulation material. Thickness shall be as per IEC 60502-1

Inner Sheath/Filler: PVC Inner sheath/Filler material.

Armour: Galvanized Round Steel Wire Armour or Double Steel Tape Armour or Flat Steel Wire Armour + Steel Tape Armour

* For Single Core Cables Armour should be Aluminium Wire Armour if the cable will not be used in DC System.

Outer Sheath: PVC outer sheath material.

CODE of CABLE

- **Cu/PVC/SWA/PVC; Cu/PVC/DSTA/PVC; NYRY; NYFGbY; NYBY; YVZ2V; YVZ3V; YVZ4V**

APPLICATION

These cables refer to PVC insulated, PVC sheathed armoured power cables with a rated voltage of 0,6/1kV. These cables used for electricity supply in a low voltage installation system. They are suitable for installation indoors, outdoors, underground, in cables ducts and power and switching stations, local energy distributions, industrial plants, and places where is a risk of mechanical damage. Due to having **ARMOUR**, these cables can be used for heavy installation and mounting conditions.

SECTION RANGE

- **From 1.5mm² up to 630mm²**

CONDUCTOR QUANTITY

- **For the Power Cables with Copper Conductor:** From 1 Core up to 5 Cores
- **For Control Cables with Copper Conductor:** From 5 Cores up to 48 Cores

COLOUR CODE of CABLE

- Insulation Colours code could be according to the International Standards or customer's request/demand.

FIRE PERFORMANCE Of CABLE SHEATHS

- Cables can be supplied with special flame retardant PVC outer sheath to comply with the flame test requirements of IEC 60332 Category A-B and C.

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PVC INSULATED, PVC SHEATHED ARMOURED 0,6/1kV ALUMINIUM POWER CABLES

TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Max. Short Circuit Temperature: (max. 5 sec.)
- Cross section ≤ 300 mm2: 160°C
- Cross section > 300 mm2: 140 °C
- Rated Voltage: 0,6/1kV (Um: 1200V)
- Min. Bending Radius: 15x Cable Outer Diameter
- Production Standard: IEC 60502-1, VDE 0271

CONSTRUCTION

Conductor: Stranded or Shaped Round Class 2 Aluminium conductor as per IEC 60228

For sections between 1.5mm² – 10mm²; Solid Round Class 1 conductor can also be supplied upon request.

Insulation: PVC insulation material. Thickness shall be as per IEC 60502-1

Inner Sheath/Filler: PVC Inner sheath/Filler material.

Armour: Galvanized Round Steel Wire Armour or Double Steel Tape Armour or Flat Steel Wire Armour + Steel Tape Armour

* For Single Core Cables Armour should be Aluminium Wire Armour if the cable will not be used in DC System.

Outer Sheath: PVC outer sheath material.

CODE of CABLE

- **Al/ PVC/SWA/PVC ; Al/ PVC/DSTA/PVC; NAYRY; NAYFGbY NAYBY; YAVZ2V; YAVZ3V; YAVZ4V**

APPLICATION

These cables refer to PVC insulated, PVC sheathed armoured power cables with a rated voltage of 0,6/1kV. These cables used for electricity supply in a low voltage installation system. They are suitable for installation indoors, outdoors, underground, in cables ducts and power and switching stations, local energy distributions, industrial plants, and places where is a risk of mechanical damage. Due to having **ARMOUR**, these cables can be used for heavy installation and mounting conditions.

SECTION RANGE

- **From 10mm² up to 630mm²**

CONDUCTOR QUANTITY

- **From 1 Core up to 5 Cores**

COLOUR CODE of CABLE

- Insulation Colours code could be according to the International Standards or customer's request/demand.

FIRE PERFORMANCE Of CABLE SHEATHS

- Cables can be supplied with special flame retardant PVC outer sheath to comply with the flame test requirements of IEC 60332 Category A-B and C.

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PVC INSULATED, PVC SHEATED Cu. SCREENED 0,6/1kV POWER CABLES

TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Max. Short Circuit Temperature: (max. 5 sec.)
- Rated Voltage: 0,6/1kV (Um: 1200V)
- Min. Bending Radius: 15x Cable Outer Diameter
- Product Standard: IEC 60502-1, VDE 0271

CONSTRUCTION

Conductor: Stranded or Shaped Round Class 2 Copper conductor as per IEC 60228.

* For sections between 1.5mm²–10mm²; Solid Round Class 1 conductor can also be supplied upon request.

* Class 5 (Flexible) Copper conductor can be also supplied upon request.

Insulation: PVC insulation material.

Inner Sheath/Filler: PVC Inner sheath/Filler material.

Screen: Cu. Tape or Cu. Wires + Cu. Tape Screen or Braided Cu. Wires Screen

Outer Sheath: PVC outer sheath material.

CODE of CABLE

- **Cu/ PVC/SC/PVC; NYCY; YVCV, YSLYCY; NYSLYCY**

APPLICATION

These cables refer to PVC insulated, PVC sheathed Copper Screened Power Cables with a rated voltage of 0,6/1kV. These cables used in door installations, in cable ducts, outdoor and underground for power stations industrial plants and switching stations as well as local supply systems if increased protection is necessary.
In case of mechanical damage the screen prevents any damage due to power leak to the surrounding area.

SECTION RANGE

- **From 1.5mm² up to 300mm²**

CONDUCTOR QUANTITY

- **For the Power Cables with Copper Conductor:** From 1 Core up to 5 Cores
- **For Control Cables with Copper Conductor:** From 5 Cores up to 48 Cores

COLOUR CODE of CABLE

- Insulation Colours could be according to the International Standards or customer's request/demand.

FIRE PERFORMANCE of CABLE SHEATHS

- Cables can be supplied with special flame retardant PVC outer sheath to comply with the flame test requirements of IEC 60332 Category A – B and C.

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XLPE INSULATED, PVC SHEATHED 0,6/1kV COPPER POWER CABLES

TECHNICAL DATA

- Max. Operating Temperature: 90°C
- Max. Short Circuit Temperature: 250°C (max. 5 sec.)
- Rated Voltage: 0,6/1kV (Um: 1200V)
- Min. Bending Radius: 12x Cable Outer Diameter
- Production Standard: IEC 60502-1, VDE 0271, BS 7889

CONSTRUCTION

Conductor: Stranded or Shaped Round Class 2 Copper or Aluminium conductor as per IEC 60228

* For sections between 1.5mm2 – 10mm2 ; Solid Round Class 1 conductor can be also supplied upon request

Insulation: XLPE insulation material. Thickness shall be as per IEC 60502-1.

Outer Sheath: PVC outer sheath material. Thickness shall be as per IEC 60502-1.

CODE of CABLE

- **Cu/XLPE/PVC; N2XY; YXV**

APPLICATION

These cables refer to XLPE insulated, PVC sheathed power cables with a rated voltage of 0,6/1kV. These cables used for electricity supply in a low voltage installation system. They are suitable for installation indoors, outdoors, underground, in cables ducts and power and switching stations, local energy distributions, industrial plants, and places where is no risk of mechanical damage.

SECTION RANGE

- **From 1.5mm² up to 630mm²**

CONDUCTOR QUANTITY

- **For the Power Cables with Copper Conductor:** From 1 Core up to 5 Cores
- **For Control Cables with Copper Conductor:** From 5 Cores up to 48 Cores

COLOUR CODE of CABLE

- Insulation Colours code could be according to the International Standards or customer's request/demand.

FIRE PERFORMANCE Of CABLE SHEATHS

- Cables can be supplied with special flame retardant PVC outer sheath to comply with the flame test requirements of IEC 60332 Category A-B and C.

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XLPE INSULATED, PVC SHEATHED 0,6/1kV ALUMINIUM POWER CABLES

TECHNICAL DATA

- Max. Operating Temperature: 90°C
- Max. Short Circuit Temperature: 250°C (max. 5 sec.)
- Rated Voltage: 0,6/1kV (Um: 1200V)
- Min. Bending Radius: 12x Cable Outer Diameter
- Production Standard: IEC 60502-1, VDE 0271, BS 7889

CONSTRUCTION

Conductor: Stranded or Shaped Round Class 2 Aluminium conductor as per IEC 60228

* For sections between 1.5mm2 – 10mm2 ; Solid Round Class 1 conductor can be also supplied upon request

Insulation: XLPE insulation material. Thickness shall be as per IEC 60502-1.

Outer Sheath: PVC outer sheath material. Thickness shall be as per IEC 60502-1.

CODE of CABLE

- **Al/XLPE/PVC; NA2XY; YAXV**

APPLICATION

These cables refer to XLPE insulated, PVC sheathed power cables with a rated voltage of 0,6/1kV. These cables used for electricity supply in a low voltage installation system. They are suitable for installation indoors, outdoors, underground, in cables ducts and power and switching stations, local energy distributions, industrial plants, and places where is no risk of mechanical damage.

SECTION RANGE

- **From 10mm² up to 630mm²**

CONDUCTOR QUANTITY

- **From 1 Core up to 5 Cores**

COLOUR CODE of CABLE

- Insulation Colours could be according to the International Standards or customer's request/demand.

FIRE PERFORMANCE of CABLE SHEATHS

- Cables can be supplied with special flame retardant PVC outer sheath to comply with the flame test requirements of IEC 60332 Category A – B and C.

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XLPE INSULATED, PVC SHEATHED ARMOURED 0,6/1kV COPPER POWER CABLES

TECHNICAL DATA

- Max. Operating Temperature: 90°C
- Max. Short Circuit Temperature: 250°C (max. 5 sec.)
- Rated Voltage: 0,6/1kV (Um: 1200V)
- Min. Bending Radius: 15x Cable Outer Diameter
- Production Standard: IEC 60502-1, VDE 0271, BS 5467

CONSTRUCTION

Conductor: : Stranded or Shaped Round Class 2 Copper conductor as per IEC 60228

For sections between 1.5mm² – 10mm² ; Solid Round Class 1 conductor can also be supplied upon request.

Insulation: XLPE insulation material. Thickness shall be as per IEC 60502-1

Inner Sheath/Filler: PVC Inner sheath/Filler material

Armour: Galvanised Round Steel Wire Armour or Double Steel Tape Armour or Flat Steel Wire Armour+Steel Tape Armour

* For Single Core Cables Armour should be Aluminium Wire Armour if the cable will not be used in DC System.

Outer Sheath: PVC outer sheath material. Thickness shall be as per IEC 60502-1.

CODE of CABLE

- **Cu/ XLPE/SWA/PVC; Cu/ XLPE/DSTA/PVC; N2XRY; N2XFGbY; N2XBY; YXZ2V; YXZ3V; YXZ4V**

APPLICATION

These cables refer to XLPE insulated, PVC sheathed **ARMOURED** Power cables with a rated voltage of 0,6/1kV. These cables used for electricity supply in a low voltage installation system. They are suitable for installation indoors, outdoors, underground, in cables ducts and power and switching stations, local energy distributions, industrial plants, and places where is risk of mechanical damage. Due to having **ARMOUR**, these cables can be used for heavy installation and mounting conditions.

SECTION RANGE

- **From 1.5mm² up to 630mm²**

CONDUCTOR QUANTITY

- **For the Power Cables with Copper Conductor: From 1 Core up to 5 Cores**
- **For Control Cables with Copper Conductor: From 5 Cores up to 48 Cores**

COLOUR CODE of CABLE

- Insulation Colours could be according to the International Standards or customer's request/demand.

FIRE PERFORMANCE of CABLE SHEATHS

- Cables can be supplied with special flame retardant PVC outer sheath to comply with the flame test requirements of IEC 60332 Category A – B and C.

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XLPE INSULATED, PVC SHEATHED ARMOURED 0,6/1kV ALUMINIUM POWER CABLES

TECHNICAL DATA

- Max. Operating Temperature: 90°C
- Max. Short Circuit Temperature: 250°C (max. 5 sec.)
- Rated Voltage: 0,6/1kV (Um: 1200V)
- Min. Bending Radius: 15x Cable Outer Diameter
- Production Standard: IEC 60502-1, VDE 0271, BS 5467

CONSTRUCTION

Conductor: : Stranded or Shaped Round Class 2 Aluminium conductor as per IEC 60228

For sections between 1.5mm² – 10mm² ; Solid Round Class 1 conductor can also be supplied upon request.

Insulation: XLPE insulation material. Thickness shall be as per IEC 60502-1

Inner Sheath/Filler: PVC Inner sheath/Filler material

Armour: Galvanised Round Steel Wire Armour or Double Steel Tape Armour or Flat Steel Wire Armour+Steel Tape Armour

* For Single Core Cables Armour should be Aluminium Wire Armour if the cable will not be used in DC System.

Outer Sheath: PVC outer sheath material. Thickness shall be as per IEC 60502-1.

CODE of CABLE

- **Al/ XLPE/SWA/PVC; Al/ XLPE/DSTA/PVC; NA2XRY; NA2XFGbY; NA2XBY; YAXZ2V;YAXZ3V;YAXZ4V**

APPLICATION

These cables refer to XLPE insulated, PVC sheathed **ARMOURED** Power cables with a rated voltage of 0,6/1kV. These cables used for electricity supply in a low voltage installation system. They are suitable for installation indoors, outdoors, underground, in cables ducts and power and switching stations, local energy distributions, industrial plants, and places where is risk of mechanical damage. Due to having **ARMOUR**, these cables can be used for heavy installation and mounting conditions.

SECTION RANGE

- **From 10mm² up to 630mm²**

CONDUCTOR QUANTITY

- **From 1 Core up to 5 Cores**

COLOUR CODE of CABLE

- Insulation Colours could be according to the International Standards or customer's request/demand.

FIRE PERFORMANCE of CABLE SHEATHS

- Cables can be supplied with special flame retardant PVC outer sheath to comply with the flame test requirements of IEC 60332 Category A – B and C.

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XLPE INSULATED, PVC SHEATED Cu. SCREENED 0,6/1kV POWER CABLES

TECHNICAL DATA

- Max. Operating Temperature: 90°C
- Max. Short Circuit Temperature: 250°C (max. 5 sec.)
- Rated Voltage: 0,6/1kV (Um: 1200V)
- Min. Bending Radius: 15x Cable Outer Diameter
- Production Standard: IEC 60502-1, VDE 0276-603

CONSTRUCTION

Conductor: Stranded or Shaped Round Class 2 Copper conductor as per IEC 60228.

* For sections between 1.5mm² – 10mm²; Solid Round Class 1 conductor can be also supplied upon request.

* Class 5 (Flexible) Copper conductor can be also supplied upon request.

Insulation: XLPE insulation material.

Inner Sheath/Filler: PVC Inner sheath/Filler material.

Screen: Cu. Tape or Cu. Wires + Cu. Tape Screen or Braided Cu. Wires Screen.

Outer Sheath: PVC outer sheath material.

CODE of CABLE

- **Cu/XLPE/SC/PVC; N2XCY; YXCV; N2XSLCY; YXSLCY**

APPLICATION

These cables refer to XLPE insulated, PVC sheathed Copper Screened Power Cables with a rated voltage of 0,6/1kV. These cables used in door installations, in cable ducts, outdoor and underground for power stations, industrial plants and switching stations as well as local supply systems if increased protection is necessary.
In case of mechanical damage the screen prevents any damage due to power leak to the surrounding area.

SECTION RANGE

- **From 1.5mm² up to 300mm²**

CONDUCTOR QUANTITY

- **For the Power Cables:**
  From 1 Core up to 5 Cores
- **For the Control Cables:**
  From 5 Cores up to 48 Cores

COLOUR CODE of CABLE

- Insulation Colours could be according to the International Standards or customer's request/demand.

FIRE PERFORMANCE of CABLE SHEATHS

- Cables can be supplied with special flame retardant PVC outer sheath to comply with the flame test requirements of IEC 60332 Category A – B and C.

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XLPE INSULATED, HFFR/LZSH/LSOH SHEATHED 0,6/1kV COPPER POWER CABLES

TECHNICAL DATA

- Max. Operating Temperature: 90°C
- Max. Short Circuit Temperature: 250°C (max. 5 sec.)
- Rated Voltage: 0,6/1 kV (Um: 1200V)
- Min. Bending Radius: 12x Cable Outer Diameter
- Production Standard: IEC 60502-1, VDE 0276-604, HD 604 S1

CONSTRUCTION

Conductor: Stranded or Shaped Round Class 2 Copper conductor as per IEC 60228

* For sections between 1.5mm² – 10mm²; Solid Round Class 1 conductor can also be supplied

Insulation: XLPE insulation material. Thickness shall be as per IEC 60502-1

Inner Sheath/Filler: HFFR/LSZH Inner Sheath/Filler Material

Outer Sheath: Halogen Free Flame Retardant or Low Smoke Zero Halogen outer sheath material. Thickness shall be as per IEC 60502-1.

CODE of CABLE

- **Cu/XLPE/HFFR; Cu/XLPE/LSZH; N2XH; YXH**

APPLICATION

These cables refer to XLPE insulated, HALOGEN FEE FLAME RETARDANT or LOW SMOKE ZERO HALOGEN sheathed power cables with a rated voltage of 0,6/1 kV. These cables Used in energy networks in refineries, mines, hotels, schools, tunnels, high constructions, hospitals, power plant, data processing centers, business centers where there is a risk of fire.

SECTION RANGE

- **From 1.5mm² up to 630mm²**

CONDUCTOR QUANTITY

- **For the Power Cables with Copper Conductor:** From 1 Core up to 5 Cores
- **For Control Cables with Copper Conductor:** From 5 Cores up to 48 Cores

COLOUR CODE of CABLE

- Insulation Colours could be according to the International Standards or customer's request/demand.

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XLPE INSULATED, HFFR/LZSH/LSOH SHEATHED 0,6/1kV ALUMINIUM POWER CABLES

TECHNICAL DATA

- Max. Operating Temperature: 90°C
- Max. Short Circuit Temperature: 250°C (max. 5 sec.)
- Rated Voltage: 0,6/1 kV (Um: 1200V)
- Min. Bending Radius: 12x Cable Outer Diameter
- Production Standard: IEC 60502-1, VDE 0276-604, HD 604 S1

CONSTRUCTION

Conductor: Stranded or Shaped Round Class 2 Aluminum conductor as per IEC 60228

* For sections between 1.5mm² – 10mm²; Solid Round Class 1 conductor can also be supplied

Insulation: XLPE insulation material. Thickness shall be as per IEC 60502-1

Inner Sheath/Filler: HFFR/LSZH Inner Sheath/Filler Material

Outer Sheath: Halogen Free Flame Retardant or Low Smoke Zero Halogen outer sheath material. Thickness shall be as per IEC 60502-1.

CODE of CABLE

- **Al/XLPE/HFFR; Al/XLPE/LSZH; NA2XH; YAXH**

APPLICATION

These cables refer to XLPE insulated, HALOGEN FEE FLAME RETARDANT or LOW SMOKE ZERO HALOGEN sheathed power cables with a rated voltage of 0,6/1 kV. These cables Used in energy networks in refineries, mines, hotels, schools, tunnels, high constructions, hospitals, power plant, data processing centers, business centers where there is a risk of fire.

SECTION RANGE

- **From 10mm² up to 630mm²**

CONDUCTOR QUANTITY

- **From 1 Core up to 5 Cores**

COLOUR CODE of CABLE

- Insulation Colours could be according to the International Standards or customer's request/demand.

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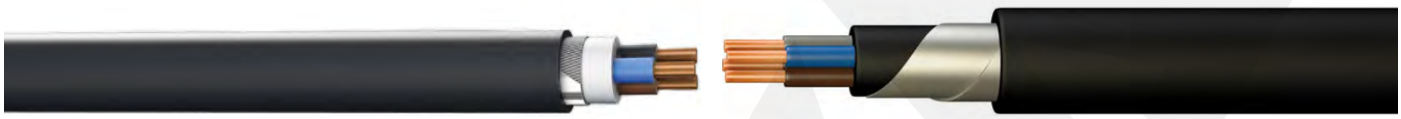
XLPE INSULATED, HFFR/LZSH/LSOH SHEATHED ARMOURED 0,6/1kV COPPER POWER CABLES



TECHNICAL DATA

- Max. Operating Temperature: 90°C
- Max. Short Circuit Temperature: 250°C (max. 5 sec.)
- Rated Voltage: 0,6/1kV (Um: 1200V)
- Min. Bending Radius: 15x Cable Outer Diameter
- Production Standard: IEC 60502-1, VDE 0276 HD 604 S1

CONSTRUCTION

Conductor: Stranded or Shaped Round Class 2 Copper conductor as per IEC 60228

* For sections between 1.5mm² – 10mm²; Solid Round Class 1 conductor can also be supplied upon request.

Insulation: XLPE insulation material. Thickness shall be as per IEC 60502-1

Inner Sheath/Filler: HFFR/LSZH Inner Sheath/Filler Material

Armour: Galvanised Round Steel Wire Armour or Double Steel Tape Armour or Flat Steel Wire Armour and Steel Tape Armour

* For Single Core Cables Armour should be Aluminium Wire Armour if the cable will not be used in DC System.

Outer Sheath: Halogen Free Flame Retardant or Low Smoke Zero Halogen outer sheath material. Thickness shall be as per IEC 60502-1

CODE of CABLE

- **Cu/XLPE/SWA/HFFR; Cu/XLPE/DSTA/HFFR; N2XRH; N2XFGbH; N2XBH; YXZ2H; YXZ3H; YXZ4H**

APPLICATION

These cables refer to XLPE insulated, HALOGEN FEE FLAME RETARDANT or LOW SMOKE ZERO HALOGEN sheathed power cables with a rated voltage of 0,6/1kV.
These cables Used in energy networks in refineries, mines, hotels, schools, tunnels, high constructions, hospitals, power plant, data processing centers, business centers where there is a risk of fire and places where is a risk of mechanical damage. Due to having **ARMOUR**, these cables can be used for heavy installation and mounting conditions.

SECTION RANGE

- **From 1.5mm² up to 630mm²**

CONDUCTOR QUANTITY

- **For the Power Cables with Copper Conductor:** From 1 Core up to 5 Cores
- **For Control Cables with Copper Conductor:** From 5 Cores up to 48 Cores

COLOUR CODE of CABLE

- Insulation Colours could be according to the International Standards or customer's request/demand.

DEMKA
single source for all electrical needs

XLPE INSULATED, HFFR/LZSH/LSOH SHEATHED ARMOURED 0,6/1kV ALUMINIUM POWER CABLES

TECHNICAL DATA

- Max. Operating Temperature: 90°C
- Max. Short Circuit Temperature: 250°C (max. 5 sec.)
- Rated Voltage: 0,6/1kV (Um: 1200V)
- Min. Bending Radius: 15x Cable Outer Diameter
- Production Standard: IEC 60502-1, VDE 0276 HD 604 S1

CONSTRUCTION

Conductor: Stranded or Shaped Round Class 2 Aluminium conductor as per IEC 60228

* For sections between 1.5mm² – 10mm²; Solid Round Class 1 conductor can also be supplied upon request.

Insulation: XLPE insulation material. Thickness shall be as per IEC 60502-1

Inner Sheath/Filler: HFFR/LSZH Inner Sheath/Filler Material

Armour: Galvanised Round Steel Wire Armour or Double Steel Tape Armour or Flat Steel Wire Armour and Steel Tape Armour

* For Single Core Cables Armour should be Aluminium Wire Armour if the cable will not be used in DC System.

Outer Sheath: Halogen Free Flame Retardant or Low Smoke Zero Halogen outer sheath material. Thickness shall be as per IEC 60502-1

CODE of CABLE

- **Al/ XLPE/SWA/HFFR; Al/ XLPE/DSTA/HFFR; NA2XRH; NA2XFGbH; NA2XBH; YAXZ2H; YAXZ3H; YAXZ4H**

APPLICATION

These cables refer to XLPE insulated, HALOGEN FEE FLAME RETARDANT or LOW SMOKE ZERO HALOGEN sheathed power cables with a rated voltage of 0,6/1kV.
These cables Used in energy networks in refineries, mines, hotels, schools, tunnels, high constructions, hospitals, power plant, data processing centers, business centers where there is a risk of fire and places where is a risk of mechanical damage. Due to having **ARMOUR**, these cables can be used for heavy installation and mounting conditions.

SECTION RANGE

- **From 10mm² up to 630mm²**

CONDUCTOR QUANTITY

- **From 1 Core up to 5 Cores**

COLOUR CODE of CABLE

- Insulation Colours could be according to the International Standards or customer's request/demand.

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single source for all electrical needs

XLPE INSULATED, HFFR/LZSH/LSOH SHEATHED Cu. SCREENED 0,6/1kV POWER CABLES

TECHNICAL DATA

- Max. Operating Temperature: 90°C
- Max. Short Circuit Temperature: 250°C (max. 5 sec.)
- Rated Voltage: 0,6/1kV (Um: 1200V)
- Min. Bending Radius: 15x Cable Outer Diameter
- Production Standard: IEC 60502-1, VDE 0271 HD 604 S1

CONSTRUCTION

Conductor: Stranded or Shaped Round Class 2 Copper or Aluminium conductor as per IEC 60228

* For sections between 1.5mm²–10mm²; Solid Round Class 1 conductor can also be supplied upon request.

* Class 5 (Flexible) Copper conductor can also be supplied upon request.

Insulation: XLPE insulation material. Thickness shall be as per IEC 60502-1

Inner Sheath/Filler: HFFR/LSZH Inner Sheath/Filler Material

Screen: Cu. Tape or Cu. Wires + Cu. Tape Screen or Braided Cu. Wires Screen.

Outer Sheath: Halogen Free Flame Retardant or Low Smoke Zero Halogen outer sheath material. Thickness shall be as per IEC 60502-1.

CODE of CABLE

- **Cu/ XLPE/SC/HFFR; Cu/XLPE/SC/LSZH; N2XCH; YXCH; N2XSLCH; YXSLCH**

APPLICATION

These cables refer to XLPE insulated, HALOGEN FEE FLAME RETARDANT or LOW SMOKE ZERO HALOGEN sheathed copper screened power cables with a rated voltage of 0,6/1kV. These cables have a low dielectric loss, Indoor installations, in cable ducts outdoor and underground for power stations industrial plants and switching stations as well as local supply systems if increased protection is necessary.
In case of mechanical damage, the screen prevents any damage due to power leak to the surrounding area.

SECTION RANGE

- **For the Power Cables with Copper Conductor:** From 1.5 mm² up to 300 mm²
- **For the Power Cables with Aluminium Conductor:** From 10 mm² up to 300 mm²

CONDUCTOR QUANTITY

- **For the Power Cables with Copper Conductor:** From 1 Core up to 5 Cores
- **For Control Cables with Copper Conductor:** From 5 Cores up to 48 Cores

COLOUR CODE of CABLE

- Insulation Colours could be according to the International Standards or customer's request/demand.

FIRE PERFORMANCE of CABLE SHEATHS

- Cables can be supplied with special flame retardant PVC outer sheath to comply with the flame test requirements of IEC 60332 Category A – B and C.

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MICAGLASS TAPE+ XLPE INSULATED, 0,6/1kV FIRE RESISTANT FE/180 POWER CABLES

TECHNICAL DATA

- Max. Operating Temperature: 90°C
- Max. Short Circuit Temperature: 250°C (max. 5 sec.)
- Rated Voltage: 0,6/1kV (Um: 1200V)
- Min. Bending Radius: 15x Cable Outer Diameter
- Production Standard: IEC 60502-1; IEC60031; VDE 0276; HD 604; S1

CONSTRUCTION

Conductor: : Stranded or Shaped Round Class 2 Copper conductor

*For sections between 1.5mm²–10mm²; Solid Round Class 1 conductor can also be supplied upon request.

Insulation: Mica Glass Tape+, XLPE insulation material.

Inner Sheath/Filler: HFFR/LSZH Inner sheath

Outer Sheath: Halogen Free Flame Retardant or Low Smoke Zero Halogen outer sheath material. Thickness shall be as per IEC 60502-1.

CODE of CABLE

- **Cu/MGT/XLPE/HFFR FE180; Cu/MGT/XLPE/LSZHFE180; N2XH FE 180; YXH FE 180**

APPLICATION

These cables refer to Mica Glass Tape +XLPE insulated, HALOGEN FREE FLAME RETARDANT or LOW SMOKE ZERO HALOGEN sheathed FE180 Power Cables with a rated voltage of 0,6/1kV. These cables used in energy networks in refineries, mines, hotels, schools, tunnels, high constructions, hospitals, power plant, data processing centers, business centers where there is a risk of fire.

SECTION RANGE

- **From 1.5mm² up to 630mm²**

CONDUCTOR QUANTITY

- **For the Power Cables:**
  From 1 Core up to 5 Cores
- **For Control Cables:**
  From 5 Cores up to 48 Cores

COLOUR CODE of CABLE

- Insulation Colours could be according to the International Standards or customer's request/demand.

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single source for all electrical needs

MICAGLASS TAPE+ XLPE INSULATED, 0,6/1kV ARMOURED FIRE RESISTANT FE/180 POWER CABLES

TECHNICAL DATA

- Max. Operating Temperature: 90°C
- Max. Short Circuit Temperature: 250°C (max. 5 sec.)
- Rated Voltage: 0,6/1kV (Um: 1200V)
- Min. Bending Radius: 15x Cable Outer Diameter
- Production Standards: IEC 60502-1, IEC 60331 VDE 0276, HD 604, S1

CONSTRUCTION

Conductor: Stranded or Shaped Round Class 2 "Copper or Aluminium conductor" as per IEC 60228 For sections between 1.5mm²–10mm²; Solid Round Class 1 conductor can also be supplied upon request.

Insulation: Mica Glass Tape + XLPE insulation material. Thickness shall be as per IEC 60502-1.

Inner Sheath/Filler: HFFR/LSZH Inner sheath

Armour: Galvanised Round Steel Wire Armour or Double Steel Tape Armour or Flat Steel Wire Armour + Steel Tape Armour * For Single Core Cables Armour should be Aluminium Wire Armour if the cable will not be used in DC System.

Outer Sheath: Halogen Free Flame Retardant or Low Smoke Zero Halogen outer sheath material.

CODE of CABLE

- **Cu/MGT/ XLPE/SWA/HFFR; Cu/MGT/XLPE/DSTA/ HFFR; N2XRH FE 180; N2XFGbH FE 180; N2XBH FE 180; YXZ2H FE 180; YXZ3H FE 180; YXZ4H FE 180**

APPLICATION

These cables refer to Mica Glass Tape +XLPE insulated, HALOGEN FREE FLAME RETARDANT or LOW SMOKE ZERO HALOGEN sheathed **ARMOURED** FE180 Power Cables with a rated voltage of 0,6/1kV. These cables used in energy networks in refineries, mines, hotels, schools,tunnels, high constructions, hospitals, power plant, data processing centers, business centers where there is a risk of fire and places where is risk of mechanical damage. Due to having **ARMOUR** These cables can be used for heavy installation and mounting conditions.

SECTION RANGE

- **From 1.5mm² up to 630mm²**

CONDUCTOR QUANTITY

- **For the Power Cables:**
  From 1 Core up to 5 Cores
- **For Control Cables:**
  From 5 Cores up to 48 Cores

COLOUR CODE of CABLE

- Insulation Colours could be according to the International Standards or customer's request/demand.

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single source for all electrical needs

MICAGLASS TAPE+ XLPE INSULATED, 0,6/1kV Cu. SCREENED FIRE RESISTANT FE/180 POWER CABLES

TECHNICAL DATA

- Max. Operating Temperature: 90°C
- Max. Short Circuit Temperature: 250°C (max. 5 sec.)
- Rated Voltage: 0,6/1kV (Um: 1200V)
- Min. Bending Radius: 15x Cable Outer Diameter
- Production Standards: IEC 60502-1, IEC 60331 VDE 0276, HD 604, S1

CONSTRUCTION

Conductor: : Stranded or Shaped Round Class 2 Copper conductor

For sections between 1.5mm² – 10mm²; Solid Round Class 1 conductor can also be supplied upon request.

* Class 5 (Flexible) Copper conductor can also be supplied upon request.

Insulation: Mica Glass Tape + XLPE insulation material. Thickness shall be as per IEC 60502-1

Inner Sheath/Filler: PVC Inner sheath

Screen: Cu. Wires + Cu. Tape Screen or Braided Cu. Wires Screen (Tinned Braided Cu. Wires Screen is optional)

Outer Sheath: Halogen Free Flame Retardant or Low Smoke Zero Halogen outer sheath material.

CODE of CABLE

- **Cu/ MGT/XLPE/SC/HFFR FE 180; Cu/MGT/ XLPE/SC/ LSZH FE 180; N2XCH FE 180; YXCH FE 180; N2XSLCH FE 180; YXSLCH FE 180**

APPLICATION

These cables refer to Mica Glass Tape +XLPE insulated, HALOGEN FREE FLAME RETARDANT or LOW SMOKE ZERO HALOGEN sheathed Copper Screened Power Cables with a rated voltage of 0,6/1 kV. These cables have a low dielectric loss, Indoor installations, in cable ducts, outdoor and underground for power stations, industrial plants and switching stations as well as local supply systems if increased protection is necessary. In case of mechanical damage, the screen prevents any damage due to a power leak to the surrounding area.

SECTION RANGE

- **From 1.5mm²up to 300mm²**

CONDUCTOR QUANTITY

- **For the Power Cables:** From 1 Core up to 5 Cores
- **For Control Cables:** From 5 Cores up to 48 Cores

COLOUR CODE of CABLE

- Insulation Colours could be according to the International Standards or customer's request/demand.

demka@demkaexport.com