

30 YEARS EXPERIENCE IN SPECIAL CABLES DESIGN & MANUFACTURING

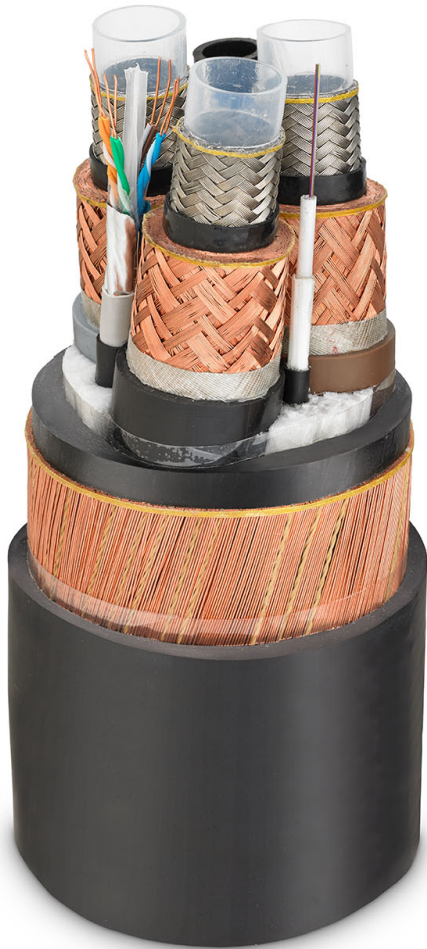


Special Cables & Conductors

PRODUCT RANGE



UNDERSTANDING THE MARKET



FCT was created to manufacture tailor made low voltage electrical cables with one purpose: to offer competence, technology, quality and an excellent service to all our customers that operate in the most varied industrial sectors and reference markets. In 1986 we started to offer customized cables, produced minimums to be set up. That was exactly what the market needs were, so we made them our own and turned it into our strength.

Our research, development and customization together with our production capacity are the reasons why customers from all over the world choose us. Our skills in producing special cables have allowed our company to be recognized, after over 35 years in the business, as a world leading manufacturer, that is capable of innovation through technical solutions designed by our own engineers. Over the course of 2021 FCT has started to implement its 2021-2025 strategic plan that involves important investments in human resources, technology, machinery, equipment, systems and spaces that are geared towards tripling our production capacity and reducing delivery time. Both our future spread out with challenges and opportunities and our solid past history standing behind us, represent the present of FCT.



PRODUCTION RANGE

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PRODUCTION RANGE

POWER SUPPLY & CONTROL - Industrial

POWER SUPPLY CABLES

- ◆ HEPR/PVC
- ◆ PVC/PVC
- ◆ XLPE/PVC
- ◆ EPDM/EPDM

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
- Bare or tinned copper conductor or aluminium conductor:
 - flexible stranded
 - round stranded
 - solid round
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Outer sheath:
 - colour according to International Standards or on customer specification
 - oil resistant
 - hydrocarbon resistant
 - chemical resistant
 - UV resistant
 - thermite resistant

Halogen free cables

- ◆ HEPR/LSZH
- ◆ EPR/LSZH
- ◆ XLPE/LSZH

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
- Bare or tinned copper conductor or aluminium conductor:
 - flexible stranded
 - round stranded
 - solid round
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)

- Outer sheath:
 - colour according to International Standards or on customer specification
 - oil resistant
 - hydrocarbon resistant
 - chemical resistant
 - UV resistant
 - thermite resistant

Fire resistant/circuit integrity cables

- ◆ **MGT/HEPR/LSZH**
- ◆ **MGT/EPR/LSZH**
- ◆ **MGT/XLPE/LSZH**

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
- Bare or tinned copper conductor or aluminium conductor:
 - flexible stranded
 - round stranded
 - solid round
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Outer sheath:
 - colour according to International Standards or on customer specification
 - oil resistant
 - hydrocarbon resistant
 - chemical resistant
 - UV resistant
 - thermite resistant

Cables for low-temperature applications

- ◆ **EPDM/EPDM**
- ◆ **HEPR/PVC**
- ◆ **PVC/PVC**
- ◆ **EPR/LSZH**
- ◆ **XLPE/PVC**
- ◆ **XLPE/LSZH**

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
- Bare or tinned copper conductor or aluminium conductor:
 - flexible stranded
 - round stranded
 - solid round
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Bare or tinned copper concentric conductor:
 - braid
 - wires

- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Outer sheath:
 - colour according to International Standards or on customer specification
 - PVC and LSZH sheath available in versions ARCTIC -40 °C or ARCTIC -60 °C
 - oil resistant
 - hydrocarbon resistant
 - chemical resistant
 - UV resistant
 - thermite resistant

POWER SUPPLY CABLES ARE ALSO AVAILABLE IN VERSIONS ACCORDING TO *NUOVO PIGNONE* STANDARDS (RCO SERIES) AND *MONTEDISON/TECNIMONT-MEU* TM STANDARDS (BN SERIES)

CONTROL CABLES

- ◆ **HEPR/PVC**
- ◆ **PVC/PVC**
- ◆ **XLPE/PVC**
- ◆ **EPDM/EPDM**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor or aluminium conductor:
 - flexible stranded
 - round stranded
 - solid round
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Outer sheath:
 - colour according to International Standards or on customer specification
 - oil resistant
 - hydrocarbon resistant
 - chemical resistant
 - UV resistant
 - thermite resistant

Halogen free cables

- ◆ **HEPR/LSZH**
- ◆ **EPR/LSZH**
- ◆ **XLPE/LSZH**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor or aluminium conductor:
 - flexible stranded
 - round stranded
 - solid round
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Outer sheath:
 - colour according to International Standards or on customer specification
 - oil resistant
 - hydrocarbon resistant
 - chemical resistant
 - UV resistant
 - thermite resistant

Fire resistant/circuit integrity cables

- ◆ **MGT/HEPR/LSZH**
- ◆ **MGT/EPR/LSZH**
- ◆ **MGT/XLPE/LSZH**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor or aluminium conductor:
 - flexible stranded
 - round stranded
 - solid round
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)



PRODUCTION RANGE

- Outer sheath:
 - colour according to International Standards or on customer specification
 - oil resistant
 - hydrocarbon resistant
 - chemical resistant
 - UV resistant
 - thermite resistant

Cables for low-temperature applications

- ◆ EPDM/EPDM
- ◆ HEPR/PVC
- ◆ PVC/PVC
- ◆ EPR/LSZH
- ◆ XLPE/PVC
- ◆ XLPE/LSZH

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor or aluminium conductor:
 - flexible stranded
 - round stranded
 - solid round
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Outer sheath:
 - colour according to International Standards or on customer specification
 - PVC and LSZH sheath available in versions ARCTIC -40 °C or ARCTIC -60 °C
 - oil resistant
 - hydrocarbon resistant
 - chemical resistant
 - UV resistant
 - thermite resistant

CONTROL CABLES ARE ALSO AVAILABLE IN VERSIONS ACCORDING TO *NUOVO PIGNONE* STANDARDS (RCO SERIES) AND *MONTEDISON/TECNIMONT-MEU*™ STANDARDS (BN SERIES)



PRODUCTION RANGE

EARTHING CABLES

Insulated

- ◆ HEPR
- ◆ EPR
- ◆ PVC

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor:
 - extra-flexible stranded
 - flexible stranded
 - round stranded
- Insulation:
 - colour according to International Standards or on customer specification
 - oil resistant
 - hydrocarbon resistant
 - UV resistant

Not insulated for ground connections

- ◆ Bare or tinned copper ropes
- ◆ Bare or tinned copper flat braids

ELECTRONIC AND WIRING CABLES

- ◆ PVC/PVC (LIYY, LIYCY, LIY(ST)CY)

Manufactured with the following components/features:

- Rated voltage:
 - 300/500 V
 - 300/300 V
 - 150/250 V
 - 100/100 V
- Bare or tinned copper conductor:
 - extra-flexible stranded
 - flexible stranded
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
- Colour of outer sheath according to International Standards or on customer specification

FLAT AND ROUND CABLES FOR LIFTS APPLICATIONS

- ◆ XLPE/PVC (LIFTCABLE)
- ◆ EPR/LSZH (LIFTCABLE HF)
- ◆ EPDM/EPDM
- ◆ PVC/PVC

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
- Central kevlar carrying rope
- Bare or tinned extra-flexible stranded copper conductor
- Colour of insulation according to International Standards or on customer specification
- Not-woven tape
- Colour of outer sheath according to International Standards or on customer specification



PRODUCTION RANGE

STRANDED CABLES

- ◆ XLPE/XLPE
- ◆ XLPE/PVC
- ◆ HEPR/PVC

Manufactured with the following components/features:

- Rated voltage 0,6/1 kV
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
- Colour of insulation according to International Standards or on customer specification
- Carrying insulated alloy element
- Outer sheath on each insulated core/element:
 - colour according to International Standards or on customer specification
 - UV resistant

FLEXIBLE BARS

Insulated

- ◆ PVC (BARFLEX)
- ◆ LSZH (BARFLEX HF)

Manufactured with the following components/features:

- Rated voltage 0,6/1 kV
- Bare or tinned copper lamels conductor
- Colour of insulation: black or according to International Standards or on customer specification



PRODUCTION RANGE

POWER SUPPLY & CONTROL - Public applications

POWER SUPPLY CABLES

- ◆ HEPR/PVC
- ◆ PVC/PVC
- ◆ XLPE/PVC
- ◆ EPDM/EPDM

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
- Bare or tinned copper conductor or aluminium conductor:
 - flexible stranded
 - round stranded
 - solid round
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Colour of outer sheath according to International Standards or on customer specification

Halogen free cables

- ◆ HEPR/LSZH
- ◆ EPR/LSZH
- ◆ XLPE/LSZH

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
- Bare or tinned copper conductor or aluminium conductor:
 - flexible stranded
 - round stranded
 - solid round
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Colour of outer sheath according to International Standards or on customer specification

Fire resistant/circuit integrity cables

- ◆ MGT/HEPR/LSZH
- ◆ MGT/EPR/LSZH
- ◆ MGT/XLPE/LSZH

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
- Bare or tinned copper conductor or aluminium conductor:
 - flexible stranded
 - round stranded
 - solid round
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Colour of outer sheath according to International Standards or on customer specification

CONTROL CABLES

- ◆ HEPR/PVC
- ◆ PVC/PVC
- ◆ XLPE/PVC
- ◆ EPDM/EPDM

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor or aluminium conductor:
 - flexible stranded
 - round stranded
 - solid round
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Colour of outer sheath according to International Standards or on customer specification

Halogen free cables

- ◆ **HEPR/LSZH**
- ◆ **EPR/LSZH**
- ◆ **XLPE/LSZH**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor or aluminium conductor:
 - flexible stranded
 - round stranded
 - solid round
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Colour of outer sheath according to International Standards or on customer specification

Fire resistant/circuit integrity cables

- ◆ **MGT/HEPR/LSZH**
- ◆ **MGT/EPR/LSZH**
- ◆ **MGT/XLPE/LSZH**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor or aluminium conductor:
 - flexible stranded
 - round stranded
 - solid round
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Colour of outer sheath according to International Standards or on customer specification

EARTHING CABLES

Insulated

- ◆ HEPR
- ◆ EPR
- ◆ PVC

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor:
 - extra-flexible stranded
 - flexible stranded
 - round stranded
- Colour of insulation according to International Standards or on customer specification

Not insulated for ground connections

- ◆ Bare or tinned copper ropes
- ◆ Bare or tinned copper flat braids

ELECTRONIC AND WIRING CABLES

- ◆ PVC/PVC (LiYY, LiYCY, LiY(ST)CY)

Manufactured with the following components/features:

- Rated voltage:
 - 300/500 V
 - 300/300 V
 - 150/250 V
 - 100/100 V
- Bare or tinned copper conductor:
 - extra-flexible stranded
 - flexible stranded
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
- Colour of outer sheath according to International Standards or on customer specification

FLAT AND ROUND CABLES FOR LIFTS APPLICATIONS

- ◆ XLPE/PVC (LIFTCABLE)
- ◆ EPR/LSZH (LIFTCABLE HF)
- ◆ EPDM/EPDM
- ◆ PVC/PVC

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
- Central kevlar carrying rope
- Bare or tinned extra-flexible stranded copper conductor
- Colour of insulation according to International Standards or on customer specification
- Not-woven tape
- Colour of outer sheath according to International Standards or on customer specification



PRODUCTION RANGE

CABLES FOR ALARM SYSTEMS

- ◆ PVC/OS/PVC
- ◆ EPR/OS/LSZH

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare flexible stranded copper conductor
- Colour of insulation according to International Standards or on customer specification
- Colour of outer sheath according to International Standards or on customer specification

CABLES FOR INTERPHONE, REMOTE CONTROL & AUTOMATION

- ◆ PVC
- ◆ PVC/PVC

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare flexible stranded copper conductor
- Colour of insulation according to International Standards or on customer specification
- Colour of outer sheath (where needed) according to International Standards or on customer specification



PRODUCTION RANGE

INSTRUMENTATION FOR INDUSTRIAL APPLICATIONS

INSTRUMENTATION CABLES

- ◆ HEPR/PVC
- ◆ PVC/PVC
- ◆ PE/PVC
- ◆ XLPE/PVC

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in:
 - pairs
 - triads
 - quads
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Bare or tinned copper braid shield:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Armours:
 - steel braid
 - steel wires
 - steel tapes
- Outer sheath:
 - colour according to International Standards or on customer specification
 - oil resistant
 - hydrocarbon resistant
 - chemical resistant
 - UV resistant
 - thermite resistant

Halogen free cables

- ◆ HEPR/LSZH
- ◆ EPR/LSZH
- ◆ PE/LSZH
- ◆ XLPE/LSZH

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in:
 - pairs
 - triads
 - quads
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall

PRODUCTION RANGE

- Bare or tinned copper braid shield:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Armours:
 - steel braid
 - steel wires
 - steel tapes
- Outer sheath:
 - colour according to International Standards or on customer specification
 - oil resistant
 - hydrocarbon resistant
 - chemical resistant
 - UV resistant
 - thermite resistant

Fire resistant/circuit integrity cables

- ◆ **MGT/HEPR/LSZH**
- ◆ **MGT/EPR/LSZH**
- ◆ **MGT/PE/LSZH**
- ◆ **MGT/XLPE/LSZH**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in:
 - pairs
 - triads
 - quads
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Bare or tinned copper braid shield:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Armours:
 - steel braid
 - steel wires
 - steel tapes
- Outer sheath:
 - colour according to International Standards or on customer specification
 - oil resistant
 - hydrocarbon resistant
 - chemical resistant
 - UV resistant
 - thermite resistant

Cables for low-temperature applications

- ◆ HEPR/PVC
- ◆ PVC/PVC
- ◆ EPR/LSZH
- ◆ XLPE/PVC
- ◆ XLPE/LSZH

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in:
 - pairs
 - triads
 - quads
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Bare or tinned copper braid shield:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Armours:
 - steel braid
 - steel wires
 - steel tapes
- Outer sheath:
 - colour according to International Standards or on customer specification
 - PVC and LSZH sheath available in versions ARCTIC -40 °C or ARCTIC -60 °C
 - oil resistant
 - hydrocarbon resistant
 - chemical resistant
 - UV resistant
 - thermite resistant

INSTRUMENTATION CABLES ARE ALSO AVAILABLE IN VERSIONS ACCORDING TO *NUOVO PIGNONE* STANDARDS (RCO SERIES) AND *MONTEDISON/TECNIMONT-MEU TM* STANDARDS (BK SERIES)

THERMOCOUPLE CABLES

- ◆ HEPR/PVC
- ◆ PVC/PVC
- ◆ PE/PVC
- ◆ XLPE/PVC

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Versions in compliance with:
 - ANSI MC 96.1 standard
 - IEC 60584 A standard
 - NF-C-42-324 standard
 - DIN 43710 standard

PRODUCTION RANGE

- BS 4937 and BS 1843 standards
- Flexible stranded or solid round alloy conductor (cables for extension):
 - type E (+ NiCr / - CuNi)
 - type J (+ Fe / - CuNi)
 - type K (+ NiCr / - Ni)
 - type N (+ NiCrSi / - NiSi)
 - type T (+ Cu / - CuNi)
- Flexible stranded or solid round alloy conductor (cables for compensation):
 - type B (+ Cu / - Cu)
 - type R (+ Cu / - CuNi)
 - type S (+ Cu / - CuNi)
 - type W (+ NiCr / - Ni)
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in pairs
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair
 - overall
 - on each pair and overall
- Bare or tinned copper braid shield:
 - on each pair
 - overall
 - on each pair and overall
- Armours:
 - steel braid
 - steel wires
 - steel tapes
- Outer sheath:
 - colour according to International Standards or on customer specification
 - oil resistant
 - hydrocarbon resistant
 - chemical resistant
 - UV resistant
 - thermite resistant

Halogen free cables

- ◆ **HEPR/LSZH**
- ◆ **EPR/LSZH**
- ◆ **PE/LSZH**
- ◆ **XLPE/LSZH**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Versions in compliance with:
 - ANSI MC 96.1 standard
 - IEC 60584 A standard
 - NF-C-42-324 standard
 - DIN 43710 standard
 - BS 4937 and BS 1843 standards
- Flexible stranded or solid round alloy conductor (cables for extension):
 - type E (+ NiCr / - CuNi)
 - type J (+ Fe / - CuNi)
 - type K (+ NiCr / - Ni)
 - type N (+ NiCrSi / - NiSi)
 - type T (+ Cu / - CuNi)
- Flexible stranded or solid round alloy conductor (cables for compensation):
 - type B (+ Cu / - Cu)
 - type R (+ Cu / - CuNi)
 - type S (+ Cu / - CuNi)
 - type W (+ NiCr / - Ni)
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in pairs

PRODUCTION RANGE

- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair
 - overall
 - on each pair and overall
- Bare or tinned copper braid shield:
 - on each pair
 - overall
 - on each pair and overall
- Armours:
 - steel braid
 - steel wires
 - steel tapes
- Outer sheath:
 - colour according to International Standards or on customer specification
 - oil resistant
 - hydrocarbon resistant
 - chemical resistant
 - UV resistant
 - thermite resistant

Fire resistant/circuit integrity cables

- ◆ **MGT/HEPR/LSZH**
- ◆ **MGT/EPR/LSZH**
- ◆ **MGT/PE/LSZH**
- ◆ **MGT/XLPE/LSZH**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Versions in compliance with:
 - ANSI MC 96.1 standard
 - IEC 60584 A standard
 - NF-C-42-324 standard
 - DIN 43710 standard
 - BS 4937 and BS 1843 standards
- Flexible stranded or solid round alloy conductor (cables for extension):
 - type E (+ NiCr / - CuNi)
 - type J (+ Fe / - CuNi)
 - type K (+ NiCr / - Ni)
 - type N (+ NiCrSi / - NiSi)
 - type T (+ Cu / - CuNi)
- Flexible stranded or solid round alloy conductor (cables for compensation):
 - type B (+ Cu / - Cu)
 - type R (+ Cu / - CuNi)
 - type S (+ Cu / - CuNi)
 - type W (+ NiCr / - Ni)
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in pairs
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair
 - overall
 - on each pair and overall
- Bare or tinned copper braid shield:
 - on each pair
 - overall
 - on each pair and overall
- Armours:
 - steel braid
 - steel wires
 - steel tapes
- Outer sheath:
 - colour according to International Standards or on customer



PRODUCTION RANGE

- specification
- oil resistant
- hydrocarbon resistant
- chemical resistant
- UV resistant
- thermite resistant

Cables for low-temperature applications

- ◆ **HEPR/PVC**
- ◆ **PVC/PVC**
- ◆ **EPR/LSZH**
- ◆ **XLPE/PVC**
- ◆ **XLPE/LSZH**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Versions in compliance with:
 - ANSI MC 96.1 standard
 - IEC 60584 A standard
 - NF-C-42-324 standard
 - DIN 43710 standard
 - BS 4937 and BS 1843 standards
- Flexible stranded or solid round alloy conductor (cables for extension):
 - type E (+ NiCr / - CuNi)
 - type J (+ Fe / - CuNi)
 - type K (+ NiCr / - Ni)
 - type N (+ NiCrSi / - NiSi)
 - type T (+ Cu / - CuNi)
- Flexible stranded or solid round alloy conductor (cables for compensation):
 - type B (+ Cu / - Cu)
 - type R (+ Cu / - CuNi)
 - type S (+ Cu / - CuNi)
 - type W (+ NiCr / - Ni)
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in pairs
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair
 - overall
 - on each pair and overall
- Bare or tinned copper braid shield:
 - on each pair
 - overall
 - on each pair and overall
- Armours:
 - steel braid
 - steel wires
 - steel tapes
- Outer sheath:
 - colour according to International Standards or on customer specification
 - PVC and LSZH sheath available in versions ARCTIC -40 °C or ARCTIC -60 °C
 - oil resistant
 - hydrocarbon resistant
 - chemical resistant
 - UV resistant
 - thermite resistant

THERMOCOUPLE CABLES ARE ALSO AVAILABLE IN VERSIONS ACCORDING TO NUOVO PIGNONE STANDARDS (RCO SERIES) AND MONTEDISON/TECNIMONT-MEU TM STANDARDS (BK SERIES)



PA.GA. CABLES

PRODUCTION RANGE

◆ MGT/EPR/LSZH

Manufactured with the following components/features:

- Rated voltage 0,6/1 kV
- Flexible stranded bare or tinned copper conductor
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Colour of insulation according to International Standards, PA.GA. Standard colours or on customer specification
- Cores twisted in pairs
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair
 - overall
 - on each pair and overall
- Bare or tinned copper braid shield:
 - on each pair
 - overall
 - on each pair and overall
- Armours:
 - steel braid
 - steel wires
 - steel tapes
- Outer sheath:
 - colour according to International Standards or on customer specification
 - oil resistant
 - hydrocarbon resistant
 - chemical resistant
 - UV resistant
 - thermite resistant



PRODUCTION RANGE

OIL & GAS - On-shore (Eni, Saipem & Agip standards)

POWER SUPPLY CABLES

- ◆ HEPR/PVC
- ◆ PVC/PVC
- ◆ XLPE/PVC
- ◆ EPDM/EPDM

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - chemical resistant
 - UV resistant
 - thermite resistant

Halogen free cables

- ◆ HEPR/LSZH
- ◆ EPR/LSZH
- ◆ XLPE/LSZH

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - chemical resistant
 - UV resistant
 - thermite resistant

Fire resistant/circuit integrity cables

- ◆ MGT/HEPR/LSZH
- ◆ MGT/EPR/LSZH
- ◆ MGT/XLPE/LSZH
- ◆ MGT/XLPE/PVC

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - chemical resistant
 - UV resistant
 - thermite resistant

Cables for low-temperature applications

- ◆ EPDM/EPDM
- ◆ HEPR/PVC
- ◆ PVC/PVC
- ◆ EPR/LSZH
- ◆ XLPE/PVC
- ◆ XLPE/LSZH

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)



PRODUCTION RANGE

CONTROL CABLES

- steel tapes (aluminium for single-core cables)
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - PVC and LSZH sheath available in versions ARCTIC -40 °C or ARCTIC -60 °C
 - chemical resistant
 - UV resistant
 - thermite resistant

- ◆ **HEPR/PVC**
- ◆ **PVC/PVC**
- ◆ **XLPE/PVC**
- ◆ **EPDM/EPDM**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - chemical resistant
 - UV resistant
 - thermite resistant

Halogen free cables

- ◆ **HEPR/LSZH**
- ◆ **EPR/LSZH**
- ◆ **XLPE/LSZH**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid

PRODUCTION RANGE

- copper wires
- copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - chemical resistant
 - UV resistant
 - thermite resistant

Fire resistant/circuit integrity cables

- ◆ MGT/HEPR/LSZH
- ◆ MGT/EPR/LSZH
- ◆ MGT/XLPE/LSZH
- ◆ MGT/XLPE/PVC

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - chemical resistant
 - UV resistant
 - thermite resistant

Cables for low-temperature applications

- ◆ EPDM/EPDM
- ◆ HEPR/PVC
- ◆ PVC/PVC
- ◆ EPR/LSZH
- ◆ XLPE/PVC
- ◆ XLPE/LSZH

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded



PRODUCTION RANGE

- solid round
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - PVC and LSZH sheath available in versions ARCTIC -40 °C or ARCTIC -60 °C
 - chemical resistant
 - UV resistant
 - thermite resistant

INSTRUMENTATION CABLES

- ◆ **HEPR/PVC**
- ◆ **PVC/PVC**
- ◆ **PE/PVC**
- ◆ **XLPE/PVC**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
 - 150/250 V
 - 100/100 V
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in:
 - pairs
 - triads
 - quads
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Bare or tinned copper braid shield:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Armours:
 - bare or tinned copper braid
 - steel braid
 - steel wires
 - steel tapes
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - chemical resistant
 - UV resistant
 - thermite resistant

Halogen free cables

- ◆ **HEPR/LSZH**
- ◆ **EPR/LSZH**
- ◆ **PE/LSZH**
- ◆ **XLPE/LSZH**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
 - 150/250 V
 - 100/100 V
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in:
 - pairs
 - triads
 - quads
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Bare or tinned copper braid shield:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Armours:
 - bare or tinned copper braid
 - steel braid
 - steel wires
 - steel tapes
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - chemical resistant
 - UV resistant
 - thermite resistant

Fire resistant/circuit integrity cables

- ◆ **MGT/HEPR/LSZH**
- ◆ **MGT/EPR/LSZH**
- ◆ **MGT/PE/LSZH**
- ◆ **MGT/XLPE/LSZH**
- ◆ **MGT/XLPE/PVC**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
 - 150/250 V
 - 100/100 V
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in:
 - pairs

PRODUCTION RANGE

- triads
- quads
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Bare or tinned copper braid shield:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Armours:
 - bare or tinned copper braid
 - steel braid
 - steel wires
 - steel tapes
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - chemical resistant
 - UV resistant
 - thermite resistant

Cables for low-temperature applications

- ◆ **HEPR/PVC**
- ◆ **PVC/PVC**
- ◆ **EPR/LSZH**
- ◆ **XLPE/PVC**
- ◆ **XLPE/LSZH**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
 - 150/250 V
 - 100/100 V
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in:
 - pairs
 - triads
 - quads
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Bare or tinned copper braid shield:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Armours:
 - bare or tinned copper braid
 - steel braid
 - steel wires
 - steel tapes
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - PVC and LSZH sheath available in versions ARCTIC -40 °C or ARCTIC -60 °C
 - chemical resistant
 - UV resistant
 - thermite resistant



PRODUCTION RANGE

THERMOCOUPLE CABLES

- ◆ **HEPR/PVC**
- ◆ **PVC/PVC**
- ◆ **PE/PVC**
- ◆ **XLPE/PVC**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
 - 150/250 V
 - 100/100 V
- Versions in compliance with:
 - ANSI MC 96.1 standard
 - IEC 60584 A standard
 - NF-C-42-324 standard
 - DIN 43710 standard
 - BS 4937 and BS 1843 standards
- Flexible stranded or solid round alloy conductor (cables for extension):
 - type E (+ NiCr / - CuNi)
 - type J (+ Fe / - CuNi)
 - type K (+ NiCr / - Ni)
 - type N (+ NiCrSi / - NiSi)
 - type T (+ Cu / - CuNi)
- Flexible stranded or solid round alloy conductor (cables for compensation):
 - type B (+ Cu / - Cu)
 - type R (+ Cu / - CuNi)
 - type S (+ Cu / - CuNi)
 - type W (+ NiCr / - Ni)
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in pairs
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair
 - overall
 - on each pair and overall
- Bare or tinned copper braid shield:
 - on each pair
 - overall
 - on each pair and overall
- Armours:
 - bare or tinned copper braid
 - steel braid
 - steel wires
 - steel tapes
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - chemical resistant
 - UV resistant
 - thermite resistant

Halogen free cables

- ◆ **HEPR/LSZH**
- ◆ **EPR/LSZH**
- ◆ **PE/LSZH**
- ◆ **XLPE/LSZH**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
 - 150/250 V
 - 100/100 V

- Versions in compliance with:
 - ANSI MC 96.1 standard
 - IEC 60584 A standard
 - NF-C-42-324 standard
 - DIN 43710 standard
 - BS 4937 and BS 1843 standards
- Flexible stranded or solid round alloy conductor (cables for extension):
 - type E (+ NiCr / - CuNi)
 - type J (+ Fe / - CuNi)
 - type K (+ NiCr / - Ni)
 - type N (+ NiCrSi / - NiSi)
 - type T (+ Cu / - CuNi)
- Flexible stranded or solid round alloy conductor (cables for compensation):
 - type B (+ Cu / - Cu)
 - type R (+ Cu / - CuNi)
 - type S (+ Cu / - CuNi)
 - type W (+ NiCr / - Ni)
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in pairs
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair
 - overall
 - on each pair and overall
- Bare or tinned copper braid shield:
 - on each pair
 - overall
 - on each pair and overall
- Armours:
 - bare or tinned copper braid
 - steel braid
 - steel wires
 - steel tapes
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - chemical resistant
 - UV resistant
 - thermite resistant

Fire resistant/circuit integrity cables

- ◆ **MGT/HEPR/LSZH**
- ◆ **MGT/EPR/LSZH**
- ◆ **MGT/PE/LSZH**
- ◆ **MGT/XLPE/LSZH**
- ◆ **MGT/XLPE/PVC**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
 - 150/250 V
 - 100/100 V
- Versions in compliance with:
 - ANSI MC 96.1 standard
 - IEC 60584 A standard
 - NF-C-42-324 standard
 - DIN 43710 standard
 - BS 4937 and BS 1843 standards
- Flexible stranded or solid round alloy conductor (cables for extension):
 - type E (+ NiCr / - CuNi)
 - type J (+ Fe / - CuNi)
 - type K (+ NiCr / - Ni)
 - type N (+ NiCrSi / - NiSi)
 - type T (+ Cu / - CuNi)
- Flexible stranded or solid round alloy conductor (cables for compensation):
 - type B (+ Cu / - Cu)

PRODUCTION RANGE

- type R (+ Cu / - CuNi)
- type S (+ Cu / - CuNi)
- type W (+ NiCr / - Ni)
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in pairs
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair
 - overall
 - on each pair and overall
- Bare or tinned copper braid shield:
 - on each pair
 - overall
 - on each pair and overall
- Armours:
 - bare or tinned copper braid
 - steel braid
 - steel wires
 - steel tapes
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - chemical resistant
 - UV resistant
 - thermite resistant

Cables for low-temperature applications

- ◆ **HEPR/PVC**
- ◆ **PVC/PVC**
- ◆ **EPR/LSZH**
- ◆ **XLPE/PVC**
- ◆ **XLPE/LSZH**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
 - 150/250 V
 - 100/100 V
- Versions in compliance with:
 - ANSI MC 96.1 standard
 - IEC 60584 A standard
 - NF-C-42-324 standard
 - DIN 43710 standard
 - BS 4937 and BS 1843 standards
- Flexible stranded or solid round alloy conductor (cables for extension):
 - type E (+ NiCr / - CuNi)
 - type J (+ Fe / - CuNi)
 - type K (+ NiCr / - Ni)
 - type N (+ NiCrSi / - NiSi)
 - type T (+ Cu / - CuNi)
- Flexible stranded or solid round alloy conductor (cables for compensation):
 - type B (+ Cu / - Cu)
 - type R (+ Cu / - CuNi)
 - type S (+ Cu / - CuNi)
 - type W (+ NiCr / - Ni)
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in pairs
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair
 - overall



PRODUCTION RANGE

- on each pair and overall
- Bare or tinned copper braid shield:
 - on each pair
 - overall
 - on each pair and overall
- Armours:
 - bare or tinned copper braid
 - steel braid
 - steel wires
 - steel tapes
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - PVC and LSZH sheath available in versions ARCTIC -40 °C or ARCTIC -60 °C
 - chemical resistant
 - UV resistant
 - thermite resistant

EARTHING CABLES

Insulated

- ◆ **HEPR**
- ◆ **EPR**
- ◆ **PVC**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor:
 - extra-flexible stranded
 - flexible stranded
 - round stranded
- Insulation:
 - colour according to International Standards or on customer specification
 - oil resistant
 - hydrocarbon resistant
 - UV resistant

Not insulated for ground connections

- ◆ **Bare or tinned copper ropes**
- ◆ **Bare or tinned copper flat braids**



PRODUCTION RANGE

OIL & GAS - Off-shore (Eni, Saipem & Agip standards)

POWER SUPPLY CABLES

- ◆ HEPR/PVC
- ◆ PVC/PVC
- ◆ XLPE/PVC
- ◆ EPDM/EPDM

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - chemical resistant
 - UV resistant
 - thermite resistant

Halogen free cables

- ◆ HEPR/LSZH
- ◆ EPR/LSZH
- ◆ XLPE/LSZH
- ◆ HEPR LSZH/LSZH
- ◆ EPR LSZH/LSZH
- ◆ XLPE LSZH/LSZH

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification

- chemical resistant
- UV resistant
- thermite resistant

Fire resistant/circuit integrity cables

- ◆ **MGT/HEPR/LSZH**
- ◆ **MGT/EPR/LSZH**
- ◆ **MGT/XLPE/LSZH**
- ◆ **MGT/XLPE/PVC**
- ◆ **MGT/HEPR LSZH/LSZH**
- ◆ **MGT/EPR LSZH/LSZH**
- ◆ **MGT/XLPE LSZH/LSZH**

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - chemical resistant
 - UV resistant
 - thermite resistant

Cables for low-temperature applications

- ◆ **EPDM/EPDM**
- ◆ **HEPR/PVC**
- ◆ **PVC/PVC**
- ◆ **EPR/LSZH**
- ◆ **XLPE/PVC**
- ◆ **XLPE/LSZH**
- ◆ **EPR LSZH/LSZH**
- ◆ **XLPE LSZH/LSZH**

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification



PRODUCTION RANGE

- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - PVC and LSZH sheath available in versions ARCTIC -40 °C or ARCTIC -60 °C
 - chemical resistant
 - UV resistant
 - thermite resistant

CONTROL CABLES

- ◆ **HEPR/PVC**
- ◆ **PVC/PVC**
- ◆ **XLPE/PVC**
- ◆ **EPDM/EPDM**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - chemical resistant
 - UV resistant
 - thermite resistant

Halogen free cables

- ◆ **HEPR/LSZH**
- ◆ **EPR/LSZH**
- ◆ **XLPE/LSZH**
- ◆ **HEPR LSZH/LSZH**
- ◆ **EPR LSZH/LSZH**
- ◆ **XLPE LSZH/LSZH**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V

PRODUCTION RANGE

- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - chemical resistant
 - UV resistant
 - thermite resistant

Fire resistant/circuit integrity cables

- ◆ **MGT/HEPR/LSZH**
- ◆ **MGT/EPR/LSZH**
- ◆ **MGT/XLPE/LSZH**
- ◆ **MGT/XLPE/PVC**
- ◆ **MGT/HEPR LSZH/LSZH**
- ◆ **MGT/EPR LSZH/LSZH**
- ◆ **MGT/XLPE LSZH/LSZH**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - chemical resistant
 - UV resistant
 - thermite resistant

Cables for low-temperature applications

- ◆ EPDM/EPDM
- ◆ HEPR/PVC
- ◆ PVC/PVC
- ◆ EPR/LSZH
- ◆ XLPE/PVC
- ◆ XLPE/LSZH
- ◆ EPR LSZH/LSZH
- ◆ XLPE LSZH/LSZH

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - steel braid (aluminium for single-core cables)
 - steel wires (aluminium for single-core cables)
 - steel tapes (aluminium for single-core cables)
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - PVC and LSZH sheath available in versions ARCTIC -40 °C or ARCTIC -60 °C
 - chemical resistant
 - UV resistant
 - thermite resistant

INSTRUMENTATION CABLES

- ◆ HEPR/PVC
- ◆ PVC/PVC
- ◆ PE/PVC
- ◆ XLPE/PVC

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
 - 150/250 V
 - 100/100 V
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in:
 - pairs
 - triads
 - quads

- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Bare or tinned copper braid shield:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Armours:
 - bare or tinned copper braid
 - steel braid
 - steel wires
 - steel tapes
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - chemical resistant
 - UV resistant
 - thermite resistant

Halogen free cables

- ◆ **HEPR/LSZH**
- ◆ **EPR/LSZH**
- ◆ **PE/LSZH**
- ◆ **XLPE/LSZH**
- ◆ **HEPR LSZH/LSZH**
- ◆ **EPR LSZH/LSZH**
- ◆ **XLPE LSZH/LSZH**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
 - 150/250 V
 - 100/100 V
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in:
 - pairs
 - triads
 - quads
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Bare or tinned copper braid shield:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Armours:
 - bare or tinned copper braid
 - steel braid
 - steel wires
 - steel tapes
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - chemical resistant
 - UV resistant
 - thermite resistant

Fire resistant/circuit integrity cables

- ◆ MGT/HEPR/LSZH
- ◆ MGT/EPR/LSZH
- ◆ MGT/PE/LSZH
- ◆ MGT/XLPE/LSZH
- ◆ MGT/XLPE/PVC
- ◆ MGT/HEPR LSZH/LSZH
- ◆ MGT/EPR LSZH/LSZH
- ◆ MGT/XLPE LSZH/LSZH

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
 - 150/250 V
 - 100/100 V
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in:
 - pairs
 - triads
 - quads
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Bare or tinned copper braid shield:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Armours:
 - bare or tinned copper braid
 - steel braid
 - steel wires
 - steel tapes
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - chemical resistant
 - UV resistant
 - thermite resistant

Cables for low-temperature applications

- ◆ HEPR/PVC
- ◆ PVC/PVC
- ◆ EPR/LSZH
- ◆ XLPE/PVC
- ◆ XLPE/LSZH
- ◆ EPR LSZH/LSZH
- ◆ XLPE LSZH/LSZH

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
 - 150/250 V
 - 100/100 V
- Bare or tinned copper conductor:
 - flexible stranded



PRODUCTION RANGE

- round stranded
- solid round
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in:
 - pairs
 - triads
 - quads
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Bare or tinned copper braid shield:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Armours:
 - bare or tinned copper braid
 - steel braid
 - steel wires
 - steel tapes
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - PVC and LSZH sheath available in versions ARCTIC -40 °C or ARCTIC -60 °C
 - chemical resistant
 - UV resistant
 - thermite resistant

THERMOCOUPLE CABLES

- ◆ **HEPR/PVC**
- ◆ **PVC/PVC**
- ◆ **PE/PVC**
- ◆ **XLPE/PVC**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
 - 150/250 V
 - 100/100 V
- Versions in compliance with:
 - ANSI MC 96.1 standard
 - IEC 60584 A standard
 - NF-C-42-324 standard
 - DIN 43710 standard
 - BS 4937 and BS 1843 standards
- Flexible stranded or solid round alloy conductor (cables for extension):
 - type E (+ NiCr / - CuNi)
 - type J (+ Fe / - CuNi)
 - type K (+ NiCr / - Ni)
 - type N (+ NiCrSi / - NiSi)
 - type T (+ Cu / - CuNi)
- Flexible stranded or solid round alloy conductor (cables for compensation):
 - type B (+ Cu / - Cu)
 - type R (+ Cu / - CuNi)
 - type S (+ Cu / - CuNi)
 - type W (+ NiCr / - Ni)
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in pairs
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair
 - overall

- on each pair and overall
- Bare or tinned copper braid shield:
 - on each pair
 - overall
 - on each pair and overall
- Armours:
 - bare or tinned copper braid
 - steel braid
 - steel wires
 - steel tapes
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - chemical resistant
 - UV resistant
 - thermite resistant

Halogen free cables

- ◆ **HEPR/LSZH**
- ◆ **EPR/LSZH**
- ◆ **PE/LSZH**
- ◆ **XLPE/LSZH**
- ◆ **HEPR LSZH/LSZH**
- ◆ **EPR LSZH/LSZH**
- ◆ **XLPE LSZH/LSZH**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
 - 150/250 V
 - 100/100 V
- Versions in compliance with:
 - ANSI MC 96.1 standard
 - IEC 60584 A standard
 - NF-C-42-324 standard
 - DIN 43710 standard
 - BS 4937 and BS 1843 standards
- Flexible stranded or solid round alloy conductor (cables for extension):
 - type E (+ NiCr / - CuNi)
 - type J (+ Fe / - CuNi)
 - type K (+ NiCr / - Ni)
 - type N (+ NiCrSi / - NiSi)
 - type T (+ Cu / - CuNi)
- Flexible stranded or solid round alloy conductor (cables for compensation):
 - type B (+ Cu / - Cu)
 - type R (+ Cu / - CuNi)
 - type S (+ Cu / - CuNi)
 - type W (+ NiCr / - Ni)
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in pairs
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair
 - overall
 - on each pair and overall
- Bare or tinned copper braid shield:
 - on each pair
 - overall
 - on each pair and overall
- Armours:
 - bare or tinned copper braid
 - steel braid
 - steel wires
 - steel tapes
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification

Fire resistant/circuit integrity cables

- chemical resistant
- UV resistant
- thermite resistant

- ◆ **MGT/HEPR/LSZH**
- ◆ **MGT/EPR/LSZH**
- ◆ **MGT/PE/LSZH**
- ◆ **MGT/XLPE/LSZH**
- ◆ **MGT/XLPE/PVC**
- ◆ **MGT/HEPR LSZH/LSZH**
- ◆ **MGT/EPR LSZH/LSZH**
- ◆ **MGT/XLPE LSZH/LSZH**

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
 - 150/250 V
 - 100/100 V
- Versions in compliance with:
 - ANSI MC 96.1 standard
 - IEC 60584 A standard
 - NF-C-42-324 standard
 - DIN 43710 standard
 - BS 4937 and BS 1843 standards
- Flexible stranded or solid round alloy conductor (cables for extension):
 - type E (+ NiCr / - CuNi)
 - type J (+ Fe / - CuNi)
 - type K (+ NiCr / - Ni)
 - type N (+ NiCrSi / - NiSi)
 - type T (+ Cu / - CuNi)
- Flexible stranded or solid round alloy conductor (cables for compensation):
 - type B (+ Cu / - Cu)
 - type R (+ Cu / - CuNi)
 - type S (+ Cu / - CuNi)
 - type W (+ NiCr / - Ni)
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in pairs
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair
 - overall
 - on each pair and overall
- Bare or tinned copper braid shield:
 - on each pair
 - overall
 - on each pair and overall
- Armours:
 - bare or tinned copper braid
 - steel braid
 - steel wires
 - steel tapes
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - chemical resistant
 - UV resistant
 - thermite resistant

Cables for low-temperature applications

- ◆ HEP/PCV
- ◆ PVC/PVC
- ◆ EPR/LSZH
- ◆ XLPE/PVC
- ◆ XLPE/LSZH
- ◆ EPR LSZH/LSZH
- ◆ XLPE LSZH/LSZH

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
 - 150/250 V
 - 100/100 V
- Versions in compliance with:
 - ANSI MC 96.1 standard
 - IEC 60584 A standard
 - NF-C-42-324 standard
 - DIN 43710 standard
 - BS 4937 and BS 1843 standards
- Flexible stranded or solid round alloy conductor (cables for extension):
 - type E (+ NiCr / - CuNi)
 - type J (+ Fe / - CuNi)
 - type K (+ NiCr / - Ni)
 - type N (+ NiCrSi / - NiSi)
 - type T (+ Cu / - CuNi)
- Flexible stranded or solid round alloy conductor (cables for compensation):
 - type B (+ Cu / - Cu)
 - type R (+ Cu / - CuNi)
 - type S (+ Cu / - CuNi)
 - type W (+ NiCr / - Ni)
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in pairs
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair
 - overall
 - on each pair and overall
- Bare or tinned copper braid shield:
 - on each pair
 - overall
 - on each pair and overall
- Armours:
 - bare or tinned copper braid
 - steel braid
 - steel wires
 - steel tapes
- Hydrocarbon & oil resistant outer sheath:
 - colour according to International Standards or on customer specification
 - PVC and LSZH sheath available in versions ARCTIC -40 °C or ARCTIC -60 °C
 - chemical resistant
 - UV resistant
 - thermite resistant



PRODUCTION RANGE

EARTHING CABLES

Insulated

- ◆ HEPR
- ◆ EPR
- ◆ PVC

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor:
 - extra-flexible stranded
 - flexible stranded
 - round stranded
- Insulation:
 - colour according to International Standards or on customer specification
 - oil resistant
 - hydrocarbon resistant
 - UV resistant

Not insulated for ground connections

- ◆ Bare or tinned copper ropes
- ◆ Bare or tinned copper flat braids



PRODUCTION RANGE

RAILWAYS APPLICATIONS

ROLLING STOCK CABLES (EN 50264 standard)

Single-core un-sheathed power cables

◆ EPR

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
- Flexible stranded tinned copper conductor
- Insulation:
 - colour according to International Standards or on customer specification
 - available in versions -25 °C or -40 °C
 - oil resistant and extra oil resistant
 - hydrocarbon resistant and extra hydrocarbon resistant

Single/multi-core sheathed power cables

◆ EPR/LSZH

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
- Flexible stranded tinned copper conductor
- Colour of insulation according to International Standards or on customer specification
- Tinned copper braid shield
- Outer sheath:
 - colour according to International Standards or on customer specification
 - available in versions -25 °C or -40 °C
 - oil resistant and extra oil resistant
 - hydrocarbon resistant and extra hydrocarbon resistant

Multi-core sheathed control cables

◆ EPR/LSZH

Manufactured with the following components/features:

- Rated voltage 300/500 V
- Flexible stranded tinned copper conductor
- Colour of insulation according to International Standards or on customer specification
- Tinned copper braid shield
- Outer sheath:
 - colour according to International Standards or on customer specification
 - available in versions -25 °C or -40 °C
 - oil resistant and extra oil resistant
 - hydrocarbon resistant and extra hydrocarbon resistant

ROLLING STOCK FIRE RESISTANT CABLES

Single-core un-sheathed power cables

◆ MGT/EPR

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
- Flexible stranded tinned copper conductor
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362



PRODUCTION RANGE

- Insulation:
 - colour according to International Standards or on customer specification
 - available in versions -25 °C or -40 °C
 - oil resistant and extra oil resistant
 - hydrocarbon resistant and extra hydrocarbon resistant

Single/multi-core sheathed power cables

◆ MGT/EPR/LSZH

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
- Flexible stranded tinned copper conductor
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Colour of insulation according to International Standards or on customer specification
- Tinned copper braid shield
- Outer sheath:
 - colour according to International Standards or on customer specification
 - available in versions -25 °C or -40 °C
 - oil resistant and extra oil resistant
 - hydrocarbon resistant and extra hydrocarbon resistant

Multi-core sheathed control cables

◆ MGT/EPR/LSZH

Manufactured with the following components/features:

- Rated voltage 300/500 V
- Flexible stranded tinned copper conductor
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Colour of insulation according to International Standards or on customer specification
- Tinned copper braid shield
- Outer sheath:
 - colour according to International Standards or on customer specification
 - available in versions -25 °C or -40 °C
 - oil resistant and extra oil resistant
 - hydrocarbon resistant and extra hydrocarbon resistant

ROLLING STOCK CABLES FOR INTERNAL CIRCUITS OF SIGNALING AND SAFETY SYSTEMS (IS 411 ed. 1988 standard)

◆ EPR

◆ EPR/LSZH

Manufactured with the following components/features:

- Rated voltage:
 - 450/750 V
 - 300/500 V
- Flexible stranded tinned copper conductor
- Colour of insulation according to IS 411 ed. 1988 standard
- Colour of outer sheath: black



PRODUCTION RANGE

ROLLING STOCK CABLES FOR EXTERNAL CIRCUITS OF SIGNALING AND SAFETY SYSTEMS (IS 409 C standard)

- ◆ EPR/EPR/LSZH
- ◆ EPR/EPR/LSZH/LSZH

Manufactured with the following components/features:

- Rated voltage 450/750 V
- Tinned copper conductor:
 - extra-flexible stranded
 - round stranded
 - solid round
- Colour of insulation according to IS 409 C standard
- Steel tape armour
- Colour of outer sheath: black

MARINE CABLES (IEC 60092 standard)

POWER SUPPLY CABLES

Halogen free cables

- ◆ **HEPR/LSZH**
- ◆ **EPR/LSZH**
- ◆ **XLPE/LSZH**

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - bare or tinned copper braid
 - steel braid (aluminium for single-core cables)
- Colour of outer sheath according to International Standards or on customer specification

Fire resistant/circuit integrity cables

- ◆ **MGT/HEPR/LSZH**
- ◆ **MGT/EPR/LSZH**
- ◆ **MGT/XLPE/LSZH**

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - bare or tinned copper braid
 - steel braid (aluminium for single-core cables)
- Colour of outer sheath according to International Standards or on customer specification



PRODUCTION RANGE

CONTROL CABLES

Halogen free cables

- ◆ **HEPR/LSZH**
- ◆ **EPR/LSZH**
- ◆ **XLPE/LSZH**

Manufactured with the following components/features:

- Rated voltage 0,6/1 kV
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - bare or tinned copper braid
 - steel braid (aluminium for single-core cables)
- Colour of outer sheath according to International Standards or on customer specification

Fire resistant/circuit integrity cables

- ◆ **MGT/HEPR/LSZH**
- ◆ **MGT/EPR/LSZH**
- ◆ **MGT/XLPE/LSZH**

Manufactured with the following components/features:

- Rated voltage 0,6/1 kV
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Bare or tinned copper concentric conductor:
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - bare or tinned copper braid
 - copper wires
 - copper tapes
- Armours:
 - bare or tinned copper braid
 - steel braid (aluminium for single-core cables)
- Colour of outer sheath according to International Standards or on customer specification

INSTRUMENTATION CABLES

Halogen free cables

- ◆ **HEPR/LSZH**
- ◆ **EPR/LSZH**
- ◆ **PE/LSZH**
- ◆ **XLPE/LSZH**

Manufactured with the following components/features:

- Rated voltage 150/250 V
- Bare or tinned copper conductor:
 - flexible stranded



PRODUCTION RANGE

- round stranded
- solid round
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in:
 - pairs
 - triads
 - quads
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Armours:
 - bare or tinned copper braid
 - steel braid
- Colour of outer sheath according to International Standards or on customer specification

Fire resistant/circuit integrity cables

- ◆ **MGT/HEPR/LSZH**
- ◆ **MGT/EPR/LSZH**
- ◆ **MGT/PE/LSZH**
- ◆ **MGT/XLPE/LSZH**

Manufactured with the following components/features:

- Rated voltage 150/250 V
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
 - solid round
- Fire resistance according to:
 - IEC 60331-21
 - CEI EN 50200 or CEI EN 50362
- Colour of insulation according to International Standards or on customer specification
- Cores twisted in:
 - pairs
 - triads
 - quads
- Aluminium/polyester tape shield with tinned copper drain wire:
 - on each pair/triad/quad
 - overall
 - on each pair/triad/quad and overall
- Armours:
 - bare or tinned copper braid
 - steel braid
- Colour of outer sheath according to International Standards or on customer specification

CATHODIC PROTECTION

CABLES FOR CATHODIC APPLICATIONS

- ◆ **HMWPE**
- ◆ **PVDF/HMWPE**
- ◆ **HMWPE/PVC**
- ◆ **HMWPE/XLPE**

Manufactured with the following components/features:

- Rated voltage 0,6/1 kV
- Versions in compliance with:
 - IEC 60502-1 standard
 - SAUDI ARAMCO standard
- Flexible stranded bare copper conductor
- Colour of insulation according to International Standards or on customer specification
- Double layer of steel wires armour (SZ)
- Colour of outer sheath according to International Standards or on customer specification



PRODUCTION RANGE

GREEN ENERGY

PHOTOVOLTAIC SYSTEMS

◆ EPR/LSZH

Manufactured with the following components/features:

- Voltage 1500 V DC
- Flexible stranded bare or tinned copper conductor
- Colour of insulation according to International Standards or on customer specification
- Steel braid armour
- UV resistant outer sheath:
 - colour according to International Standards or on customer specification

WIND ENERGY

Power cables for wind towers

- ◆ EPR/LSZH
- ◆ HEPR/EPDM
- ◆ EPDM/EPDM
- ◆ XLPE/LSZH

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 2 kV
 - 0,6/1 kV
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
- Bare or tinned copper concentric conductor (for multi-core cables):
 - braid
 - wires
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - tinned copper braid
 - aluminium/polyester tape with tinned copper drain wire + tinned copper braid
- UV and oil resistant outer sheath:
 - colour according to International Standards or on customer specification
- Optional aramidic rope in central position for vertical applications with high mechanical stresses

Control cables for wind towers

◆ XLPE/LSZH

Manufactured with the following components/features:

- Rated voltage:
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Flexible stranded bare or tinned copper conductor
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - tinned copper braid
 - aluminium/polyester tape with tinned copper drain wire + tinned copper braid
- UV and oil resistant outer sheath:
 - colour according to International Standards or on customer specification
- Optional aramidic rope in central position for vertical applications with high mechanical stresses

Power cables for rotors

- ◆ EPDM/EPDM
- ◆ HEPR/EPDM

Manufactured with the following components/features:

- Rated voltage 0,6/1 kV
- Bare or tinned copper conductor:
 - extra-flexible stranded
 - flexible stranded
- Colour of insulation according to International Standards or on customer specification
- Not-woven tape
- Shields:
 - tinned copper braid
 - aluminium/polyester tape with tinned copper drain wire + tinned copper braid
- UV and oil resistant outer sheath:
 - colour according to International Standards or on customer specification

Control cables for rotors

- ◆ EPDM/EPDM
- ◆ HEPR/EPDM

Manufactured with the following components/features:

- Rated voltage:
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor:
 - extra-flexible stranded
 - flexible stranded
- Colour of insulation according to International Standards or on customer specification
- Not-woven tape
- Shields:
 - tinned copper braid
 - aluminium/polyester tape with tinned copper drain wire + tinned copper braid
- UV and oil resistant outer sheath:
 - colour according to International Standards or on customer specification

Power cables for collection systems and for substations

- ◆ EPR/LSZH
- ◆ HEPR/EPDM
- ◆ EPDM/EPDM

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 2 kV
 - 0,6/1 kV
- Bare or tinned copper conductor:
 - flexible stranded
 - round stranded
- Colour of insulation according to International Standards or on customer specification
- Outer sheath:
 - colour according to International Standards or on customer specification
 - UV resistant



PRODUCTION RANGE

Grounding cables and single-core cables for wind energy applications

- ◆ PVC
- ◆ XLPE
- ◆ EPR
- ◆ EPDM

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
- Bare copper conductor:
 - flexible stranded
 - round stranded
- Insulation:
 - colour according to International Standards or on customer specification
 - UV resistant

CABLES FOR MOBILE APPLICATIONS ON CRANES AND FESTOON SYSTEMS

ROUND SHAPED CABLES FOR WINDING REELS ON CRANES AND FESTOON SYSTEMS

Power, control and instrumentation cables

◆ EPDM/EPDM (WINDCABLE)

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned extra-flexible stranded copper conductor
- Colour of insulation according to International Standards or on customer specification
- Bare or tinned copper braid shield:
 - on each pair for instrumentation cables
 - overall
- Not-woven tape
- Textile aramidic braid for carrying support
- Colour of outer sheath according to International Standards or on customer specification
- Optional aramidic rope in central position for vertical applications with high mechanical stresses

FLAT SHAPED CABLES FOR FESTOON SYSTEMS AND BRIDGE CRANES

Power, control and instrumentation cables

◆ EPDM/EPDM

◆ PVC/PVC

◆ XLPE/PVC

◆ XLPE/EPDM

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor:
 - extra-flexible stranded
 - flexible stranded
- Colour of insulation according to International Standards or on customer specification
- Bare or tinned copper braid shield on each core or on each pair/triad group
- Colour of outer sheath according to International Standards or on customer specification
- Optional aramidic ropes in lateral positions for vertical applications with high mechanical stresses

ROUND SHAPED CABLES FOR PENDANT PUSH BUTTON ON BRIDGE CRANES

Control cables

◆ EPDM/EPDM

◆ PVC/PVC

Manufactured with the following components/features:

- Rated voltage:
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned extra-flexible stranded copper conductor
- Colour of insulation according to International Standards or on customer specification
- Colour of outer sheath according to International Standards or on customer specification
- Steel ropes in lateral positions



PRODUCTION RANGE

ROUND SHAPED CABLES FOR CRANES WITH BASKET COLLECTOR

Power, control and instrumentation cables

◆ EPDM/EPDM

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
- Bare or tinned extra-flexible stranded copper conductor
- Colour of insulation according to International Standards or on customer specification
- Bare or tinned copper braid shield:
 - on each pair for instrumentation cables
 - overall
- Not-woven tape
- Textile aramidic braid for carrying support
- Colour of outer sheath according to International Standards or on customer specification
- Optional aramidic rope in central position for vertical applications with high mechanical stresses



PRODUCTION RANGE

AUTOMATION

CHAIN CABLES FOR POWER AND CONTROL

- ◆ PVC/PVC (MOBILCABLE OR)
- ◆ PVC/PUR (MOBILPUR)
- ◆ XLPE/PVC (SOFTCABLE OR)
- ◆ XLPE/PUR (DYNACABLE)

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Extra-flexible stranded bare or tinned copper conductor
- Colour of insulation according to International Standards or on customer specification
- Bare or tinned copper braid shield
- Not-woven tape
- Outer sheath:
 - colour according to International Standards or on customer specification
 - oil resistant
 - abrasion resistant
 - low temperature resistant

CABLES FOR ROBOTIC AND FOR MOBILE APPLICATIONS WITH HIGH DYNAMICAL STRESSES

- ◆ HY/PUR (TORFLES)

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Extra-flexible stranded bare or tinned copper conductor
- Colour of insulation according to International Standards or on customer specification
- Bare or tinned copper braid shield
- Not-woven tape
- Outer sheath:
 - colour according to International Standards or on customer specification
 - oil resistant
 - abrasion resistant
 - low temperature resistant

SERVO MOTOR CABLES FOR FIXED APPLICATIONS

- ◆ HEPR/PVC
- ◆ XLPE/PVC
- ◆ HEPR/LSZH
- ◆ XLPE/LSZH

Manufactured with the following components/features:

- Rated voltage 0,6/1 kV
- Bare or tinned flexible stranded copper conductor
- Colour of insulation according to International Standards or on customer specification
- Shields/concentric conductors:
 - bare or tinned copper braid concentric conductor
 - aluminium/polyester tape with tinned copper drain wire + bare or tinned copper braid concentric conductor
- Armours:
 - steel braid
 - steel wires
 - steel tapes
- Colour of outer sheath according to International Standards or on customer specification



PRODUCTION RANGE

SERVO MOTOR CABLES FOR MOBILE APPLICATIONS

- ◆ PVC/PUR (MOTORCABLE)
- ◆ PVC/PVC
- ◆ XLPE/PUR
- ◆ HY/PUR

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Extra-flexible stranded bare or tinned copper conductor
- Colour of insulation according to International Standards or on customer specification
- Bare or tinned copper braid shield:
 - on each pair
 - overall
 - on each pair and overall
- Not-woven tape
- Outer sheath:
 - colour according to International Standards or on customer specification
 - oil resistant
 - abrasion resistant
 - low temperature resistant



PRODUCTION RANGE

WELDING

WELDING CABLES

- ◆ EPDM
- ◆ EPDM/EPDM

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 100/100 V
- Extra-flexible stranded bare copper conductor
- Bare copper braid concentric conductor
- Colour of insulation according to International Standards or on customer specification
- Air/water hoses
- Signal conductors
- Colour of outer sheath according to International Standards or on customer specification

POWER TRANSFORMERS

CABLES FOR POWER TRANSFORMERS

- ◆ HEPR/PUR (PTOD)

Manufactured with the following components/features:

- Rated voltage 0,6/1 kV
- Flexible stranded bare copper conductor
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - Bare or tinned copper braid
 - Bare copper tape
- Steel wires armour
- Colour of outer sheath according to International Standards or on customer specification

FUNICULAR RAILWAYS

POWER AND CONTROL CABLES FOR FUNICULAR RAILWAYS

- ◆ XLPE/EPDM
- ◆ EPDM/EPDM
- ◆ PVC/PVC

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
- Flexible stranded bare or tinned copper conductor
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
- Outer sheath:
 - colour according to International Standards or on customer specification
 - PVC sheath available in versions ARCTIC -40 °C or ARCTIC -60 °C
 - UV resistant
- Steel rope in external position, available with several carrying load values



PRODUCTION RANGE

SUBMERSIBLE PUMPS

ROUND OR FLAT SHAPED CABLES FOR SUBMERSIBLE PUMPS

- ◆ XLPE/EPDM
- ◆ EPDM/EPDM
- ◆ XLPE/XLPE
- ◆ PP/EPDM
- ◆ PVC/PVC

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
 - 450/750 V
- Bare or tinned copper conductor:
 - extra-flexible stranded
 - flexible stranded
- Colour of insulation according to International Standards or on customer specification
- Tinned copper braid shield
- Armours:
 - steel braid
 - steel wires
- Colour of outer sheath according to International Standards or on customer specification

MINES AND TUNNELING

POWER SUPPLY CABLES FOR FIXED INSTALLATION

- ◆ EPR/EPDM
- ◆ HEPR/EPDM
- ◆ EPDM/EPDM
- ◆ EPR/PUR
- ◆ HEPR/PUR
- ◆ EPDM/PUR

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
- Bare or tinned flexible stranded copper conductor
- Colour of insulation according to International Standards or on customer specification
- Earth conductors splitted into 3 in the outer interstices
- Additional control pair/triad
- Bare or tinned copper braid shield:
 - on each core/pair/triad
 - overall
- Outer sheath:
 - colour according to International Standards or on customer specification
 - oil resistant (PUR outer sheaths)
 - abrasion resistant (PUR outer sheaths)

Halogen free cables

- ◆ EPR/LSZH
- ◆ HEPR/LSZH

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
- Bare or tinned flexible stranded copper conductor
- Colour of insulation according to International Standards or on customer specification
- Earth conductors splitted into 3 in the outer interstices



PRODUCTION RANGE

- Additional control pair/triad
- Bare or tinned copper braid shield:
 - on each core/pair/triad
 - overall
- Outer sheath:
 - colour according to International Standards or on customer specification
 - oil resistant

CONTROL CABLES FOR FIXED INSTALLATION

- ◆ PE/EPDM
- ◆ XLPE/EPDM
- ◆ PE/PUR
- ◆ XLPE/PUR

Manufactured with the following components/features:

- Rated voltage:
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned flexible stranded copper conductor
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - bare or tinned copper braid
 - aluminium/polyester tape with tinned copper drain wire
- Outer sheath:
 - colour according to International Standards or on customer specification
 - oil resistant (PUR outer sheaths)
 - abrasion resistant (PUR outer sheaths)

Halogen free cables

- ◆ PE/LSZH
- ◆ XLPE/LSZH

Manufactured with the following components/features:

- Rated voltage:
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned flexible stranded copper conductor
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - bare or tinned copper braid
 - aluminium/polyester tape with tinned copper drain wire
- Outer sheath:
 - colour according to International Standards or on customer specification
 - oil resistant

ROUND OR FLAT SHAPED CABLES FOR SUBMERSIBLE PUMPS

- ◆ XLPE/EPDM
- ◆ EPDM/EPDM
- ◆ XLPE/XLPE

Manufactured with the following components/features:

- Rated voltage:
 - 1,8/3 kV
 - 0,6/1 kV
 - 450/750 V
- Bare or tinned copper conductor:
 - extra-flexible stranded
 - flexible stranded
- Colour of insulation according to International Standards or on customer specification
- Tinned copper braid shield
- Armours:
 - steel braid
 - steel wires
- Colour of outer sheath according to International Standards or on customer specification

ROUND SHAPED CABLES FOR WINDING REELS ON CRANES AND FESTOON SYSTEMS

Power, control and instrumentation cables

- ◆ EPDM/EPDM (WINDCABLE)

Manufactured with the following components/features:

- Rated voltage 0,6/1 kV
- Bare or tinned extra-flexible stranded copper conductor
- Colour of insulation according to International Standards or on customer specification
- Bare or tinned copper braid shield:
 - on each pair for instrumentation cables
 - overall
- Not-woven tape
- Textile aramidic braid for carrying support
- Colour of outer sheath according to International Standards or on customer specification
- Optional aramidic rope in central position for vertical applications with high mechanical stresses

FLAT SHAPED CABLES FOR FESTOON SYSTEMS AND BRIDGE CRANES

Power, control and instrumentation cables

- ◆ EPDM/EPDM
- ◆ XLPE/EPDM

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned copper conductor:
 - extra-flexible stranded
 - flexible stranded
- Colour of insulation according to International Standards or on customer specification
- Bare or tinned copper braid shield on each core or on each pair/triad group
- Colour of outer sheath according to International Standards or on customer specification
- Optional aramidic ropes in lateral positions for vertical applications with high mechanical stresses

ROUND SHAPED CABLES FOR PENDANT PUSH BUTTON ON BRIDGE CRANES

Control cables

◆ EPDM/EPDM

Manufactured with the following components/features:

- Rated voltage:
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Bare or tinned extra-flexible stranded copper conductor
- Colour of insulation according to International Standards or on customer specification
- Colour of outer sheath according to International Standards or on customer specification
- Steel ropes in lateral positions

ROUND SHAPED CABLES FOR CRANES WITH BASKET COLLECTOR

Power, control and instrumentation cables

◆ EPDM/EPDM

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
- Bare or tinned extra-flexible stranded copper conductor
- Colour of insulation according to International Standards or on customer specification
- Bare or tinned copper braid shield:
 - on each pair for instrumentation cables
 - overall
- Not-woven tape
- Textile aramidic braid for carrying support
- Colour of outer sheath according to International Standards or on customer specification
- Optional aramidic rope in central position for vertical applications with high mechanical stresses

CHAIN CABLES FOR POWER AND CONTROL

◆ XLPE/PUR (DYNACABLE)

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Extra-flexible stranded bare or tinned copper conductor
- Colour of insulation according to International Standards or on customer specification
- Bare or tinned copper braid shield
- Not-woven tape
- Outer sheath:
 - colour according to International Standards or on customer specification
 - oil resistant
 - abrasion resistant
 - low temperature resistant

CABLES FOR MOBILE APPLICATIONS WITH HIGH DYNAMICAL STRESSES

◆ HY/PUR (TORFLES)

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
 - 300/300 V
- Extra-flexible stranded bare or tinned copper conductor
- Colour of insulation according to International Standards or on customer specification
- Bare or tinned copper braid shield
- Not-woven tape
- Outer sheath:
 - colour according to International Standards or on customer specification
 - oil resistant
 - abrasion resistant
 - low temperature resistant

FLAT AND ROUND CABLES FOR LIFTS APPLICATIONS

◆ EPR/LSZH (LIFTCABLE HF)

◆ EPDM/EPDM

Manufactured with the following components/features:

- Rated voltage:
 - 0,6/1 kV
 - 450/750 V
 - 300/500 V
- Central kevlar carrying rope
- Bare or tinned extra-flexible stranded copper conductor
- Colour of insulation according to International Standards or on customer specification
- Not-woven tape
- Colour of outer sheath according to International Standards or on customer specification

WIRING

WIRING CABLES FOR GENERAL USE

- ◆ PVC/PVC
- ◆ XLPE/PVC
- ◆ PVC/PUR
- ◆ XLPE/PUR
- ◆ PUR/PUR
- ◆ XLPE/LSZH

Manufactured with the following components/features:

- Rated voltage:
 - 300/500 V
 - 300/300 V
 - 150/250 V
 - 100/100 V
- Bare or tinned copper conductor:
 - extra-flexible stranded
 - flexible stranded
- Colour of insulation according to International Standards or on customer specification
- Shields:
 - aluminium/polyester tape with tinned copper drain wire
 - bare or tinned copper braid
 - aluminium/polyester tape with tinned copper drain wire + bare or tinned copper braid
 - bare or tinned copper wires
- Steel braid armour
- Colour of outer sheath according to International Standards or on customer specification



PRODUCTION RANGE

SPECIAL CABLES

CUSTOMIZED HYBRID CABLES

- ◆ Cables designed and produced entirely based on customer specifications (containing power and signal cores, hoses for fluids, optical fibers, serial cables, etc.), suitable f.i. for welding use. Please contact us for more informations

WATER COOLED POWER CABLES

- ◆ Cables containing hoses for cooling water, suitable for use in various sectors like inductive furnaces, tunneling and much more. Please contact us for more informations

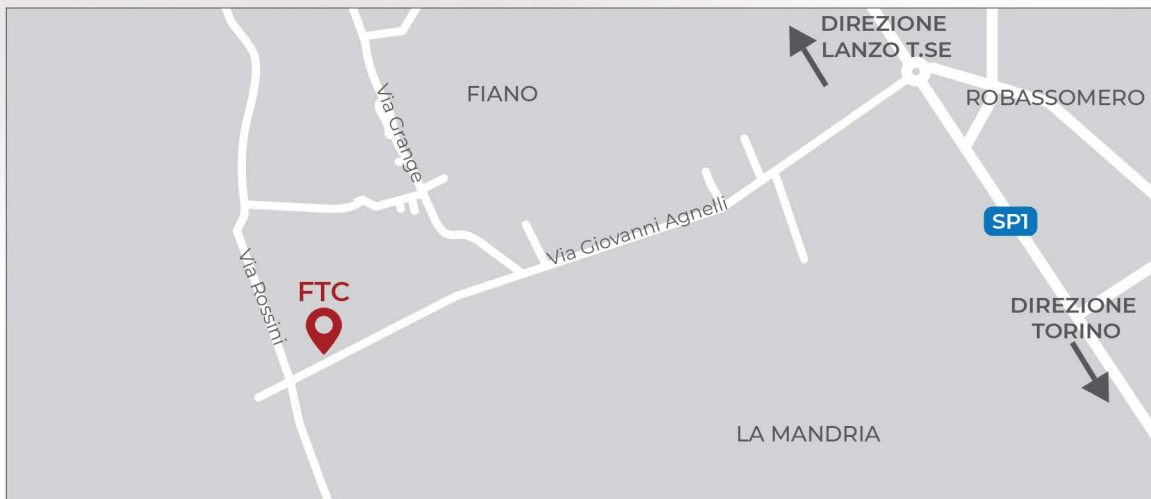


Responding with competence

In September 2021 we opened our new industrial site in the outskirts of Turin, where we have located all our production activities as well as our administrative functions. Such site is spread over **20 000 square meters**, 12 000 of which are indoor. FCT has made considerable technological investments in order to create our 4.0 factory.

Our **sales office** collects customers' requests and quickly process them in collaboration with our technical and quality office so as to provide a rapid as well as financially and technically feasible response. Please consult our contact for the sales office: sales@ftc-cavi.com

The **administration** department is available for all administrative financial and tax queries. This is the contact email for the administrative division: amministrazione@ftc-cavi.com



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