

## 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

## 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

- 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