

# ISOLATION

**The insulation covering the conductors can be made of various types of material according to the needs.**

## PVC

Extruded thermoplastic polyvinyl chloride operating temperatures  $-40 + 105^{\circ}\text{C}$ , it has a good insulating power and, if loaded in a suitable way, an excellent flame retardant power with a relatively low cost, not suitable where a low capacitance value is needed (es. data cables or intrinsically safe), it contains chlorine so it is not LSZH.

## PE

Extruded thermoplastic polyethylene operating temperatures  $-40 + 70^{\circ}\text{C}$ , it has an excellent insulating power therefore a very low capacitance value in relation to the thickness, it is not flame retardant but it is non-toxic LSZH (suitable for data or intrinsic safety cables).

## XLPE

Extruded thermoplastic cross-linked polyethylene operating temperatures  $-40 + 90^{\circ}\text{C}$  it has an excellent insulating power therefore a very low capacitance value in relation to the thickness, it is not flame retardant but it is non-toxic LSZH (suitable for power cables).

## HEPR G7

Extruded cross-linked polyolefin operating temperatures  $-40 + 90^{\circ}\text{C}$  has an excellent insulating power therefore a very low capacitance value in relation to the thickness, it is not flame retardant but it is non-toxic LSZH (suitable for power cables).

## FR-HEPR G10 – G16 – G18

Extruded cross-linked polyolefin operating temperatures  $-40 + 90^{\circ}\text{C}$  has good insulation power and excellent flame retardant power and is non-toxic (suitable for all cables that must be LSZH flame retardant e.g. CPR) .

## MGT

Mica tape coiled over the conductor typically used under fire resistant cable insulations.

