



DESCRIPTION

- Construction Standard: ET-03.354.006.3 Ed.5, IEC-60502-1.
- Low Voltage Directive (LVD) compliant: 2014/35/UE
- Construction Products Regulation (CPR) - (EU) N° 305/2011: **Reaction to fire B2ca-s1a-d1-a1**
- RoHS compliant.
- **Power railway indoor infrastructures.**

Low voltage power cables specially designed for railway infrastructure. These cables are armoured with special corrugated steel armour (F3) which provides the cable mechanical safety water-tightness, rodent-proofness, and better handleability.

They are halogen-free, fire retardant, low smoke emission and reduced opacity, used for the energy supply of 3kV single-phase and three-phase distribution lines used in control, command and signaling installations in railway infrastructures.






TECHNICAL CHARACTERISTICS

Conductor	Aluminium conductor (Class 2) according to UNE-EN 60288.
Insulation	Cross-linked Polyethylene (XLPE), type DIX 3 according UNE HD 603 and XLPE according IEC 60502.
Inner sheath	Thermoplastic polyolefin sheath ST8 according to IEC 60502-1
Armour	Corrugated tinned steel tape (F3)
Outer sheath	Thermoplastic polyolefin sheath ST8 according to IEC 60502-1
Nominal Voltage	3/3 kV C.A
Voltage Test	9.500 V C.A. (5 minutes)
Minimum bending radius	10 x overall diameter
Maximum conductor temperatures	Normal operation 90°C Short circuit (5sec) 250°C

OTHER CHARACTERISTICS

- Non-flame propagation according to EN 60332-1-2, IEC 60332-1-2.
- Non-fire propagation according to EN 60332-3-24, IEC 60332-3-24.
- Low halogen content according to EN 60754-2, EN 60754-1, IEC 60754-2, IEC 60754-1.
- Low corrosive gas emission according to EN 60754-2, IEC 60754-2.
- Low smoke emission according to EN 61034-2, IEC 61034-2.
- **Fire reaction (CPR) B2ca-s1a, d1, a1.**
- UV resistance (1 cycle) according to UNE 211605.
- Water absorption resistance.
- High cold resistance.
- Impact and rodent resistance.
- **Flexible cable (F3).**



Insulation colors			
Conductors	Yellow	Brown	Green
2			
3			

SECTIONS

Section (mm ²)	Resistance at 20 °C (Ohm/km)	Nominal outer diameter (mm)	Weight (kg/m)
2X35	0,868	33,6	0,969
2X50	0,641	35	1,157
2X70	0,443	38,2	1,407
2X95	0,320	41,8	1,723
2X120	0,253	44,6	2,002
2X150	0,206	47,8	2,314
3X35	0,868	35,4	1,192
3X50	0,641	36,9	1,341
3X70	0,443	40,5	1,660
3X95	0,320	44,4	2,049
3X120	0,253	47,4	2,395
3X150	0,206	50,8	2,776

**The values of the outer diameters are approximate, always within production tolerance. For more information, please contact us.*

HEADQUARTER AGONCILLO (LA RIOJA)
Tel: +34 941 486 125

DELEGATION MADRID
Tel: +34 629 673 359