

EN 50288-7 (500 V) CHEMICAL PROTECTION
ALTERNATIVE TO LEAD SHEATH



CABLE STRUCTURE

Conductor	Electrolytic, stranded, annealed plain copper wires to IEC 60228 Class 2 (Class 1 or Class 5 and / or tinned on request)
Insulation	XLPE compound to EN50290-2-29 Black / White twisted pairs with numbered cores
Binder Tape	Polyester foil on each twisted pair
Individual Screen	Aluminum/polyester foil with a tinned copper drain wire in direct contact with the metallic side of the foil
Binder Tape	Polyester foil on overall cable core formed by stranded pairs
Collective Screen	Aluminum/polyester foil with a tinned copper drain wire in direct contact with the metallic side of the foil
Inner Sheath	PVC compound to EN50290-2-22
Chemical & Moisture Barrier (Multi Layer Sheath)	Longitudinally applied protective plastic coated Aluminum tape bonded with an extruded layer of high density polyethylene (HDPE) to 50290-2-4 and plus an additional extruded layer of Polyamide (PA)
Armour	Round galvanised steel wires EN 10257-1
Outer Sheath	Flame retardant PVC compound to EN50290-2-22 Black colour. Other colours on request

STANDARDS & MAIN CHARACTERISTICS

Rated Voltage	500 V a.c.
AC Test Voltage	2000 V x 1 min. (core:core / core: screen)
Working Temperature	-40°C / + 90°C (during operation) - 5 °C / + 50°C (during installation)
Min Bending Radius (Fixed)	10 x D
Construction	EN 50288-7
Material Types & Tests	EN 50290-2 series
Electrical & Mechanical Tests	EN 50289 series
Flame Retardant	IEC 60332 / 1-2, IEC 60332 / 3-24 Cat C

Available Features on Request

- 300 V version
- Hydrocarbon resistant
- Oil resistant
- UV resistant
- Yv type reinforced sheath
- Anti termit / anti rodent
- LSF (Low Smoke) version
- Fire resistant version
- HDPE outer sheath alternative
- PE insulation
- PE Sheath

Application

These cables used for connecting instruments and control systems for analogue or digital signal transmission for indoor and outdoor applications. These cables shall not be connected directly to mains electricity supply or other low impedance sources, since they are not designed to be used for power supply. Recommended for use protection needed against aliphatic and aromatic hydrocarbons, engine oils and other organic and inorganic chemicals. This multi layer barrier provide also excellent protection against corrosion and moisture.