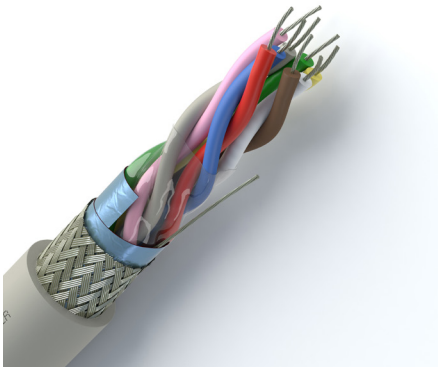
DATA TRANSMISSION AND INSTRUMENTATION



STANDARDS

CEI 20-29 IEC 60228
CEI 20-11
CEI EN 60332-3-24 Cat.C IEC 60332-3-24 Cat.C (outer sheath)
CEI UNEL 36762

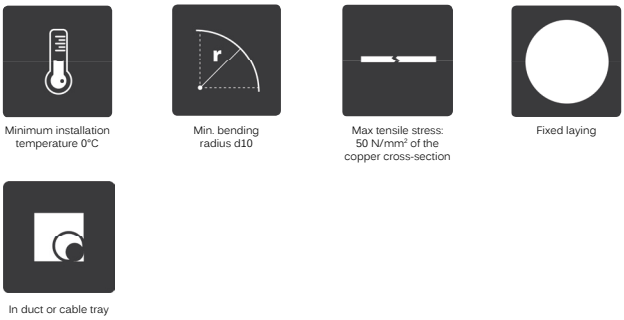
REACTION TO FIRE CLASS

EN 50575:2016 D_{ca} - s3, d2, a3

TEMPERATURES

Minimum working temperature: -15°C
Maximum working temperature: +70°C
Maximum short circuit temperature: +160°C

LAYING CONDITIONS



MANUFACTURING CHARACTERISTICS

Conductor:
Flexible tinned copper
Insulation:
Low-density Polyethylene compound (LDPE)
Stranding:
Cores twisted in pairs
Pairs stranded in concentric layers
Wrapping and protection:
Overall polyester tape
Shield:
1st shield:
Overall aluminium/polyester tape with flexible tinned copper drain-wire
2nd shield:
Overall tinned copper braid
Outer sheath:
PVC compound, Rz type
Colours:
Cores identification:
DIN 47100
Outer sheath colour:
Grey (based on RAL 7035)

ELECTRICAL CHARACTERISTICS

Operating voltage: 300/300V
Outer sheath operating voltage: 450/750V
Testing voltage: 1500V
Min. insulation resistance at 20°C > 200 MΩxKm

APPLICATIONS

Cable conforms to the requirements in the Construction Products Regulations (CPR EU 305/11), aimed at limiting the production and diffusion of fire and smoke.
Overall shielded multipair cable suitable for electronic, data transmission between central and peripheral units through ports (RS422 and RS485) and for interconnections between devices where a high quality of the transmitted signals is required.
Suitable for applications not covered by CPR Regulations and for installations in a closed environment, excluding cases with specific initiation/propagation fire hazards where is recommended the use of cables with higher fire response performance (at least Cca-s3,d1,a3).
This cable can always be installed, where it's allowed, in coexistence with 450/750V power cables. Furthermore, if it's used to supply power to category 0 systems (nominal voltage less than or equal to 50V AC, or 120V non-inverted DC), it can also be installed in coexistence with 0.6/1kV power cables that supply 230/400V nominal voltage loads.
Underground laying is not permitted, even if protected.

	FORMATION [n° x mm²]	OUTER DIAMETER[1] [mm]	WEIGHT[1] [kg/km]	MAX. ELECTRICAL RESISTANCE AT 20°C [Ohm/km]	CAPACITANCE Cc [pF/m]	CAPACITANCE Cs [pF/m]	IMPEDANCE Z [Ohm]
	1 X 2 X AWG24	6.7	61	85.00	42	76	120
	2 X 2 X AWG24	9.5	99	85.00	42	76	120
	4 X 2 X AWG24	11.9	148	85.00	42	76	120

Cc: approx. cond./cond. of the pair capacitance, measured at 800 kHz frequency between two cores of the pair, leaving the other terminals not involved in the test floating
Cs: approx. cond./shield of the pair capacitance, measured at 800 kHz frequency between one core of the pair and the shield, leaving the other terminals not involved in the test floating
Z: characteristic impedance of the nominal pair, measured at 800 kHz frequency between two cores of the pair in short circuit, leaving the other terminals not involved in the test floating
* According to in-stock availability, cable which must be produced on request and minimum quantity
[1] Unless otherwise specified, the values for weight and diameter are indicative.
Note: other values, if available and released for publication, are available on request.

ON REQUEST

- Galvanized steel braid armour with 450/750V insulation voltage outer sheath
- LSZH outer sheath