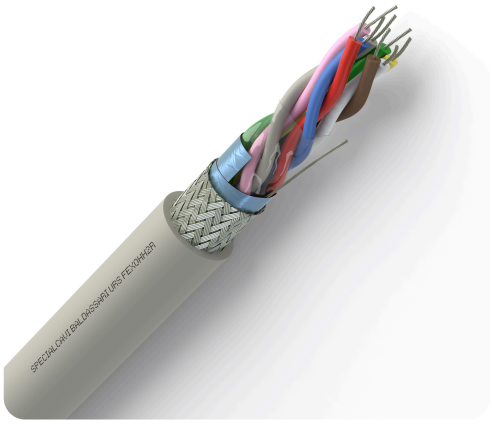
URS FEXOHH2R

CPR CLASS: EN 50575:2014+A1:2016 Dca-s3,d2,a3



The product render is for illustration only.

Application

Multi-core cable with overall shielding, suitable for data transmission (RS422/RS485), ideal for indoor civil, industrial, and machine edge applications. Compliant with EU CPR Regulation 305/11, designed to limit the spread of fire and smoke. Buried laying and outdoor laying are not permitted, even if protected.

Marking

<meters> CE 0987 SPECIALCAVI BALDASSARI URS FEXOHH2R <formation> DCA-S3,D2,A3 <lot> <year>

Manufacturing characteristics

Conductor: tinned copper

Insulation: LDPE compound, according to CEI 20-11

Wrapping and protection: polyester tape

Screen:

First screen: aluminium/polyester tape, with flexible tinned copper drain wire
Second screen: tinned copper braid

Outer sheath: polyvinyl chloride (PVC) compound, flame retardant

Outer sheath colour: grey, based on RAL 7035

Cable geometry: round

On request

- Custom cores section
- Galvanized steel braid armour

Reaction to fire - EN 13501-6

Reaction to fire according to EN 13501-6: Class
Dca

Reaction to fire according to EN 13501-6: Smoke production
s3

Reaction to fire according to EN 13501-6: Flaming droplets/particles
d2

Reaction to fire according to EN 13501-6: Acidity
a3

Specify standards

Installation standard

Identification and tests to be used for cables for category 0 systems in relation to coexistence in ducts containing cables for category I systems: CEI UNEL 36762

CPR standard for reaction to fire

Common test methods for cables under fire conditions - Heat release and smoke production measurement on cables during flame spread test: EN 50399

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Electrical characteristics

Nominal voltage U_o:
- 300V

Nominal voltage U:
- 300V

Sheath operating voltage:
- 450/750V

Test voltage:
- 1,5kV 50Hz A.C. (5 min) c-c
- 1,0kV 50Hz A.C. (1 min) c-s

Maximum voltage:
- U_o/U 410/410V D.C.
- U_o/U 320/320V A.C.

Minimum insulation resistance:
- >200MΩxKm

Temperatures

Permitted cable outer temperature during assembling/handling
0°C

Operating temperature range
-15°C | +70°C

Maximum conductor temperature
+70°C

Maximum short-circuit temperature
+160°C

Product characteristics

Flame retardant	IEC 60332-1-2	✓
	IEC 60332-3-21 (Cat A F/R)	✗
	IEC 60332-3-22 (Cat A)	✗
	IEC 60332-3-23 (Cat B)	✗
	IEC 60332-3-24 (Cat C)	✗
	IEC 60332-3-25 (Cat D)	✗
Low smoke	EN IEC 61034-2	✗
Halogen Free	EN IEC 60754-1	✗
	EN IEC 60754-2	✗
	EN IEC 60754-3	✗

Oil resistant	EN IEC 60811-404	✗
Low temperature resistant	EN 60811-504+505+506	✓
UV resistant		✗
Ozone resistant		✗
Hydrocarbons resistant	ENI 181	✗
Fire resistant	IEC 60331-1 (diameter > 20 mm) or EN 50200 (diameter < 20 mm)	✗
Presence of water	HD 60364-5-54:2009	✗
Impact resistant	HD 60364-5-54:2009	✗

Laying conditions

FIXED LAYING ✓

INDOOR LAYING ✓

LAYING IN AIR WITH PROTECTION ✓

MAXIMUM TENSILE STRENGTH DURING INSTALLATION
0,050 kN copper cross-section of conductors

MOBILE LAYING ✗

OUTDOOR LAYING ✗

DIRECTLY BURIED LAYING ✗

WITH RODENT PROTECTION ✗

OCCASIONAL MOBILE LAYING W/O STRESS ✗

LAYING IN FREE AIR ✓

BURIED LAYING WITH PROTECTION ✗

MINIMUM BENDING RADIUS
10 times the outer diameter

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Nominal cross section conductor [mm²]	Conductor resistance at 20°C [Ohm/Km]	Capacitance (Cc | Cs) [pF/m]	Characteristic impedance (Z) [Ohm]
AWG 24	85	42 | 76	120

Cc: *approx. cond./cond. capacitance, measured at 800 kHz frequency between two cores, leaving the other terminals not involved in the test floating*
Cs: *approx. cond./shield capacitance, measured at 800 kHz frequency between core and 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, leaving the other terminals not involved in the test floating*

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Article code	Formation [n° x mm²]	Twisted/stranded cores	Outer diameter approx [mm]	Weight approx [Kg/Km]	Cores colour	Cores identification standards
URS9841	1 X 2 X AWG24	Cores twisted in a pair	6,7	51	White and Brown (1° pair)	DIN 47100
URS9842	2 X 2 X AWG24	Cores twisted in pairs. Pairs stranded in concentric layers	10,0	93	White and Brown (1° pair)-Green and Yellow (2° pair)	DIN 47100
URS9844	4 X 2 X AWG24	Cores twisted in pairs. Pairs stranded in concentric layers	12,3	177	White and Brown (1° pair)-Green and Yellow (2° pair)-Grey and Pink (3° pair)-Blue and Red (4° pair)	DIN 47100