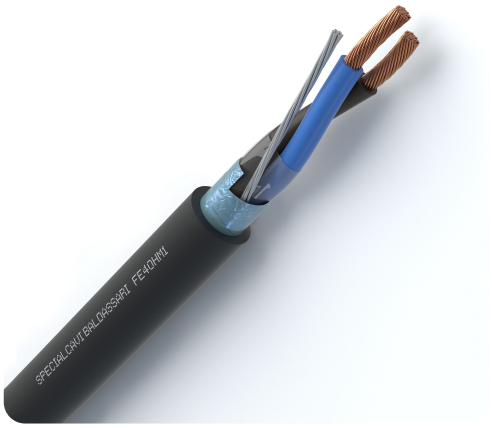
FE4OHM1

CPR CLASS: EN 50575:2014+A1:2016 Eca



The product render is for illustration only.

Application

Multi-core LSZH shielded cable for data transmission between central and peripheral units, ensuring high signal quality in civil and industrial environments. Compliant with EU CPR Regulation 305/11, designed to limit the spread of fire and smoke. Buried laying (direct and with protection) and outdoor laying are allowed.

Marking

<meters> CE 0987 SPECIALCAVI BALDASSARI FE4OHM1 <formation> 0.6/1kV ECA <lot> <year>

Manufacturing characteristics

Conductor: bare copper class 5 flexible, according to CEI 20-29 EN IEC 60228

Insulation: crosslinked polyethylene (XLPE) compound, according to CEI 20-11

Wrapping and protection: polyester tape

Screen: aluminium/polyester tape, with flexible tinned copper drain wire

Outer sheath: LSZH thermoplastic compound, M1 type, according to CEI 20-11

Outer sheath colour: black, based on RAL 9005

Cable geometry: round

On request

- Custom cores and outer sheath colouring

Reaction to fire - EN 13501-6

Reaction to fire according to EN 13501-6: Class

Eca

Electrical characteristics

Nominal voltage U_o:
- 600V

Nominal voltage U:
- 1000V

Sheath operating voltage:
- 600/1000V

Test voltage:
- 4,0kV 50Hz A.C. (5 min) c-c
- 3,0kV 50Hz A.C. (1 min) c-s

Maximum voltage:
- U_o/U 1800/1800V D.C.
- U_o/U 693/1200V A.C.

Minimum insulation resistance:
- >200MΩxKm

Temperatures

Permitted cable outer temperature during assembling/handling
0°C

Operating temperature range
-30°C | +90°C

Maximum conductor temperature
+90°C

Maximum short-circuit temperature
+250°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	UL 1581 (XENON UV test)	✓
	Aging hours	500 h
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	AD7
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]
0.50	39,0
0.75	26,0
1.00	19,5
1.50	13,3

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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
FE4OHM105002	2 X 0,50	Cores twisted in a pair	7,5	95	Blue-Black	-
FE4OHM105003	3 X 0,50	Cores twisted in a triple	7,8	104	Blue-Brown-Black	CEI UNEL 00722 - HD 308 S2
FE4OHM105004	4 X 0,50	Cores twisted in a quad	8,4	117	Black cores with progressive numbering	-
FE4OHM105006	6 X 0,50	Cores stranded in concentric layers	9,6	149	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM105008	8 X 0,50	Cores stranded in concentric layers	11,3	193	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM105010	10 X 0,50	Cores stranded in concentric layers	12,2	213	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM105012	12 X 0,50	Cores stranded in concentric layers	12,2	221	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM105016	16 X 0,50	Cores stranded in concentric layers	13,6	276	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM105020	20 X 0,50	Cores stranded in concentric layers	15,1	327	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM105025	25 X 0,50	Cores stranded in concentric layers	16,7	383	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM105030	30 X 0,50	Cores stranded in concentric layers	17,5	433	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM105036	36 X 0,50	Cores stranded in concentric layers	18,8	494	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM105041	41 X 0,50	Cores stranded in concentric layers	20,2	558	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM107502	2 X 0,75	Cores twisted in a pair	8,1	106	Blue-Black	-
FE4OHM107503	3 X 0,75	Cores twisted in a triple	8,4	120	Blue-Brown-Black	CEI UNEL 00722 - HD 308 S2
FE4OHM107504	4 X 0,75	Cores twisted in a quad	9,1	139	Black cores with progressive numbering	-
FE4OHM107506	6 X 0,75	Cores stranded in concentric layers	10,8	183	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM107508	8 X 0,75	Cores stranded in concentric layers	12,4	232	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM107510	10 X 0,75	Cores stranded in concentric layers	13,7	271	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM107512	12 X 0,75	Cores stranded in concentric layers	13,7	283	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM107516	16 X 0,75	Cores stranded in concentric layers	15,2	344	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM107520	20 X 0,75	Cores stranded in concentric layers	16,8	412	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM107525	25 X 0,75	Cores stranded in concentric layers	18,8	495	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM107530	30 X 0,75	Cores stranded in concentric layers	19,6	547	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM107536	36 X 0,75	Cores stranded in concentric layers	21,2	644	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334

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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
FE4OHM107541	41 X 0,75	Cores stranded in concentric layers	22,9	728	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM110002	2 X 1,00	Cores twisted in a pair	8,6	115	Blue-Black	-
FE4OHM110003	3 X 1,00	Cores twisted in a triple	8,9	131	Blue-Brown-Black	CEI UNEL 00722 - HD 308 S2
FE4OHM110004	4 X 1,00	Cores twisted in a quad	9,6	155	Black cores with progressive numbering	-
FE4OHM110005	5 X 1,00	Cores stranded in concentric layers	10,6	183	Black cores with progressive numbering	-
FE4OHM110007	7 X 1,00	Cores stranded in concentric layers	11,4	216	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM110008	8 X 1,00	Cores stranded in concentric layers	13,3	265	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM110010	10 X 1,00	Cores stranded in concentric layers	14,7	310	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM110012	12 X 1,00	Cores stranded in concentric layers	14,7	325	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM110016	16 X 1,00	Cores stranded in concentric layers	16,2	399	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM110019	19 X 1,00	Cores stranded in concentric layers	17,0	442	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM110025	25 X 1,00	Cores stranded in concentric layers	20,1	577	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM110030	30 X 1,00	Cores stranded in concentric layers	21,1	652	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM115002	2 X 1,50	Cores twisted in a pair	9,4	137	Blue-Black	-
FE4OHM115003	3 X 1,50	Cores twisted in a triple	9,8	158	Blue-Brown-Black	CEI UNEL 00722 - HD 308 S2
FE4OHM115004	4 X 1,50	Cores twisted in a quad	10,8	191	Black cores with progressive numbering	-
FE4OHM115005	5 X 1,50	Cores stranded in concentric layers	11,7	225	Black cores with progressive numbering	-
FE4OHM115007	7 X 1,50	Cores stranded in concentric layers	12,7	267	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM115010	10 X 1,50	Cores stranded in concentric layers	16,4	390	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM115012	12 X 1,50	Cores stranded in concentric layers	16,4	412	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM115016	16 X 1,50	Cores stranded in concentric layers	18,4	519	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM115019	19 X 1,50	Cores stranded in concentric layers	19,3	582	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334
FE4OHM115025	25 X 1,50	Cores stranded in concentric layers	22,9	760	Black cores with progressive numbering	CEI UNEL 00725 - CEI EN 50334