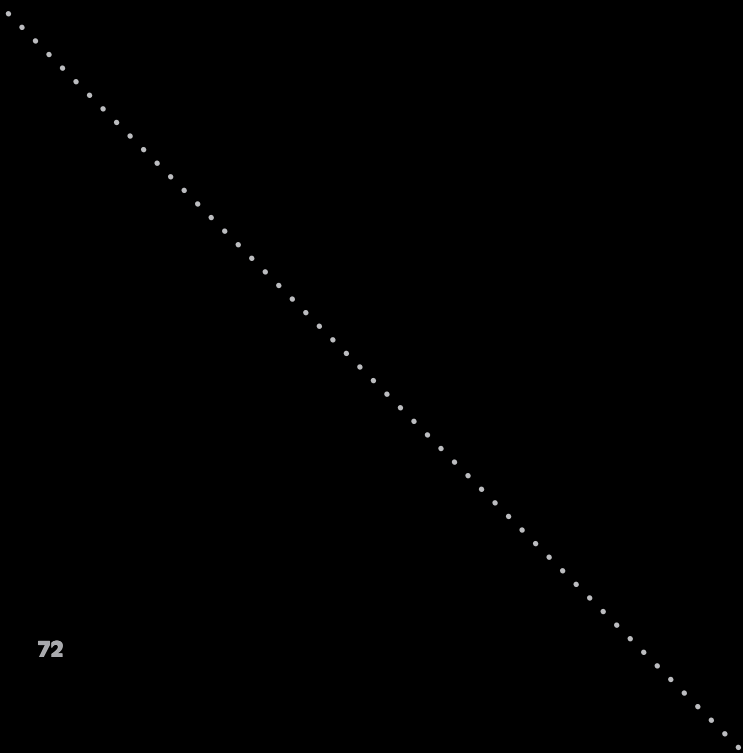


02

Mass Transit Cables



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Single and multicore signalling PVC cables for RFI installations

Item n°	Cross-section [mm²]	Maximum diameter [mm]	RFI item and colour
R0101	1x0,60	1,75	804/915 black
R0102	1x0,93	2,05	804/916 black
R0103	21x0,60	11,0	804/917 grey
R0104	7x0,93	8,0	804/918 grey
R0105	13x0,93	10,5	804/919 grey
R0106	21x0,93	13,0	804/920 grey
R0107	21x0,93	13,0	804/921 green
R0108	3x2,5	8,8	804/922 red
R0109	10x2,5	14,2	804/923 red
R0110	10x4	16,5	804/924 red

Item n°	Cross-section [mm²]	Maximum diameter [mm]	RFI item and colour
R0111	1x16	1,75	804/236 red
R0112	1x16	2,05	804/237 yellow
R0113	20x1	13,0	804/247 grey

CONSTRUCTION ACCORDING TO IS400

Conductor: bare copper conductor

Insulation: PVC compound at high insulation resistance rated 105°C

Sheath: PVC compound type R₂ according to CEI 20-11

Marking: no marking required

Fire safety: CEI EN 60332-1-2

CONSTRUCTION ACCORDING TO CEI-UNEL

SINGLE CORE:

Conductor: special bare copper conductor according to class 5 CEI EN 60228 construction (7x18x0,41)

Insulation: PVC compound type TI2 according to CEI EN 50525

Marking:

UNIKA (Italy) - cat.804/236 - H07V-K 1x16 IEMMEQU <HAR> - "traceability code" - CE

UNIKA (Italy) - cat.804/237 - 07V-K 1x16 - "traceability code" - CE

MULTICORE:

Conductor: bare copper conductor according to class 5 CEI EN 60228

Insulation: PVC compound type TI2 according to CEI EN 50525

Sheath: PVC compound type TM2 according to CEI EN 50525

Marking: UNIKA (Italy) - cat.804/247 - 05VV-F 20x1 300/500V - "traceability code" - CE

Fire safety: CEI EN 60332-1-2

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Multicore signalling halogen-free cables for outdoor installations according to RFI specifications

Item n°	Cross-section [mm²]	Maximum diameter [mm]	RFI item
R0401	2x1	12,7	804/302
R0402	4x1	14,0	804/304
R0403	6x1	16,6	804/306
R0404	8x1	17,5	804/308
R0405	12x1	20,5	804/312
R0406	16x1	22,6	804/316
R0407	30x1	28,1	804/330
R0408	2x2,5	15,3	804/348
R0409	4x2,5	17,0	804/350
R0410	1x4	11,2	804/352
R0411	2x4	16,2	804/354
R0412	3x4	17,0	804/356
R0413	3x6	18,2	804/360
R0414	3x10	21,8	804/359
R0415	3x16	24,5	804/361
R0416	4x1,5	15,2	804/334
R0417	8x1,5	19,5	804/338
R0418	16x1,5	27,0	804/344

CONSTRUCTION ACCORDING TO IS409 ED. 1988

Conductor: tinned copper conductor according to CEI EN 60228. Class 1 for cross-sections 1, 2,5, 4 and 6 mm². Class 2 for cross-sections 10 and 16 mm². Class 6 for cross-section 1,5 mm².

Insulation: halogen free compound type G10 according to CEI 20-11
Inner sheath: halogen free compound type G10 according to CEI 20-11

Sheath: halogen free compound type M2 according to CEI 20-11, colour black

Marking: UNIKA(Italy) – "RFI item" – "cond. number"x"cross-section"– EFSAT – year – "traceability code" – "meter marking"

Rated voltage: 450/750 V

Fire safety: CEI EN 60332-1-2, CEI EN 60332-3-24, CEI 20-37

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Item n°	Cross-section [mm²]	Maximum diameter [mm]	RFI item
R0420	4x1	14,0	804/510
R0421	8x1	17,5	804/512
R0422	16x1	22,6	804/514
R0423	2x2,5	15,3	804/516
R0424	4x2,5	17,0	804/518
R0425	2x4	16,2	804/520
R0426	3x4	17,0	804/522
R0427	2x6	17,4	804/524
R0429	3x6	18,2	804/526
R0430	3x10	21,8	804/528
R0431	3x16	24,5	804/530
R0432	3x25	28,2	804/532
R0433	4x1,5	15,2	804/534
R0434	8x1,5	19,5	804/536
R0435	16x1,5	27,0	804/538

CONSTRUCTION ACCORDING TO IS409 REV. C – NON ARMoured TYPES

Conductor: tinned copper conductor according to CEI EN 60228. Class 1 for cross-sections 1, 2,5, 4 and 6 mm². Class 2 for cross-sections 10, 16 and 25 mm². Class 6 for cross-section 1,5 mm².

Insulation: halogen free compound type G10 according to CEI 20-11

Bedding: halogen free compound type G10 according to CEI 20-11

Sheath: halogen free compound type M2 according to CEI 20-11, colour black

Marking: UNIKA(Italy) – “RFI item” – “cond. number”x”cross-section” – EFSAT – year – “traceability code” – “meter marking”

Rated voltage: 450/750 V

Fire safety: CEI EN 60332-1-2, CEI EN 60332-3-24, CEI 20-37

The characteristics of the products, described in the data sheet, do not constitute any contractual binding. UNIKA spa reserves the right to change the specifications without any notice. Partial or total reproduction of this document is forbidden.

Item n°	Cross-section [mm²]	Maximum diameter [mm]	RFI item
R0440	4x1	19,0	804/511
R0441	8x1	22,5	804/513
R0442	16x1	27,0	804/515
R0443	2x2,5	20,3	804/517
R0444	4x2,5	23,0	804/519
R0445	2x4	21,2	804/521
R0446	3x4	23,0	804/523
R0447	2x6	22,4	804/525
R0448	3x6	23,2	804/527
R0449	3x10	26,8	804/529
R0450	3x16	29,5	804/531
R0451	3x25	33,0	804/533
R0452	4x1,5	20,2	804/535
R0453	8x1,5	24,5	804/537
R0454	16x1,5	33,0	804/539

CONSTRUCTION ACCORDING TO IS409 REV. C – ARMoured TYPES

Conductor: tinned copper conductor according to CEI EN 60228. Class 1 for cross-sections 1, 2,5, 4 and 6 mm². Class 2 for cross-sections 10, 16 and 25 mm². Class 6 for cross-section 1,5 mm².

Insulation: halogen free compound type G10 according to CEI 20-11

Bedding: halogen free compound type G10 according to CEI 20-11

Inner sheath: halogen free compound type M2 according to CEI 20-11, colour black

Armour: double steel tape

Sheath: halogen free compound type M1 according to CEI 20-11, colour black

Marking: UNIKA(Italy) – “RFI item” – “cond. number”x”cross-section”– EFSAT – year – “traceability code” – “meter marking”

Rated voltage: 450/750 V

Fire safety: CEI EN 60332-1-2, CEI EN 60332-3-24, CEI 20-37

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Single and multicore signalling halogen-free cables for internal installations according to RFI specifications

Item n°	Cross-section [mm²]	Maximum diameter [mm]	RFI item and colour
R0201	1x0,60	2,3	804/268 black
R0202	1x0,93	2,5	804/269 black
R0203	1x2,5	3,8	804/270 black
R0204	1x4	4,3	804/271 black
R0205	21x0,60	13,9	804/272 grey
R0206	7x0,93	9,7	804/273 grey
R0207	13x0,93	13,0	804/274 grey
R0208	21x0,93	15,5	804/275 grey
R0209	21x0,93	15,5	804/276 green
R0210	3x2,5	9,8	804/277 red
R0211	10x2,5	17,3	804/278 red
R0212	10x4	19,6	804/279 red

CONSTRUCTION ACCORDING TO IS412

Conductor: bare copper conductor according to class 5 CEI EN 60228

Insulation: halogen free compound type G9 for single core and type G10 for multicore according to CEI 20-11

Sheath: halogen free compound type M1 according to CEI 20-11

Marking: UNIKA(Italy) –“RFI item”–EF-SATxx

(xx: last two digit of production year)

Rated voltage:

Cross-sections 2,5 and 4 mm² 450/750 V

Cross-sections 0,6 and 0,93 mm² 300/500 V

Fire safety: CEI EN 60332-1-2, CEI EN 60332-3-24, CEI 20-37

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Item n°	Cross-section [mm²]	Maximum diameter [mm]	RFI item and colour
R0601	1x0,5	2,8	804/250 black
R0602	1x1	3,2	804/251 black
R0603	1x1,5	3,5	804/252 black
R0604	1x2,5	4,2	804/254 black
R0605	1x4	4,8	804/256 black
R0606	1x6	6,3	804/258 black
R0607	5x0,5	10,0	804/260 black
R0608	12x0,5	13,0	804/262 black
R0609	20x0,5	16,0	804/264 black
R0610	20x1	18,0	804/266 black

CONSTRUCTION ACCORDING TO IS411

Conductor: tinned copper conductor according to class 5 CEI EN 60228

Insulation: halogen free compound type G9 for single core or G10 for multicore according to CEI 20-11

Sheath: halogen free compound type M1 according to CEI 20-11

Marking: UNIKA(Italy) – “RFI item” – EF-SATxx
(xx: last two digit of production year)

Rated voltage:
single core 450/750 V
multi core 300/500 V

Fire safety: CEI EN 60332-1-2, CEI EN 60332-3-24, CEI 20-37

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Single and multicore, halogen-free power cables for outdoor installations according to RFI specifications

Item n°	Cross-section [mm²]	Maximum diameter [mm]	RFI item
R0501	1x10	12,6	803/250
R0502	1x16	14,0	803/251
R0503	1x25	15,7	803/252
R0504	1x35	20,3	803/253
R0505	1x70	22,6	803/254
R0506	1x95	25,2	803/255
R0507	1x120	27,9	803/256
R0508	1x150	30,1	803/257
R0509	2x6	17,6	803/258
R0510	2x10	19,7	803/259
R0511	2x16	22,2	803/260
R0512	2x25	26,6	803/261
R0513	3x2,5	15,2	803/262
R0514	3x10	22,0	803/263
R0515	3x16	24,2	803/264
R0516	3x25	27,9	803/265
R0517	3x35	30,4	803/266
R0518	3x50	33,6	803/267
R0519	3x95	43,1	803/268
R0520	3x120	46,9	803/269
R0521	3x150	51,8	803/270
R0522	4x2,5	17,1	803/271
R0523	4x4	18,5	803/272
R0524	4x6	20,5	803/273
R0525	4x25	30,3	803/274
R0526	3x35 + 25	32,5	803/275
R0527	3x50 + 25	36,0	803/276

CONSTRUCTION ACCORDING TO TE 652 AND CEI 20-38

Conductor: tinned copper conductor according to CEI EN 60228. Class 5 for cross-sections up to 10 mm² in multicore cables. Class 5 for all single core cables. Class 2 for cross-sections from 16 mm² in multicore core cables

Insulation: halogen free compound type G10 according to CEI 20-11

Sheath: halogen free compound type M1 according to CEI 20-11, colour black

Marking: UNIKA(Italy) – "RFI item" – EFSAT – year

Rated voltage: 0,6/1 kV

Fire safety: CEI EN 60332-1-2, CEI EN 60332-3-24, CEI 20-37

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Single and multicore, halogen-free, fire resistant, power cables for outdoor installations according to RFI specifications

Item n°	Cross-section [mm²]	Maximum diameter [mm]	RFI item
R0301	1x1,5	6,4	803/200
R0302	1x2,5	7,0	803/201
R0303	1x4	7,4	803/202
R0304	1x6	9,0	803/203
R0305	1x10	10,0	803/204
R0306	1x16	10,5	803/205
R0307	1x25	12,5	803/206
R0308	1x35	14,0	803/207
R0309	1x50	16,0	803/208
R0310	2x1,5	12,0	803/209
R0311	2x2,5	13,0	803/210
R0312	2x4	14,0	803/211
R0313	2x6	16,0	803/212
R0314	2x10	18,5	803/213
R0315	2x16	19,5	803/214
R0316	2x25	23,5	803/215
R0317	3x1,5	13,0	803/216
R0318	3x2,5	14,0	803/217
R0319	3x4	15,0	803/218
R0320	3x6	17,0	803/219
R0321	3x10	20,0	803/220
R0322	3x16	21,5	803/221
R0323	3x25	25,0	803/222
R0324	4x1,5	14,0	803/223
R0325	4x2,5	15,0	803/224
R0326	4x4	16,5	803/225
R0327	4x6	19,0	803/226
R0328	4x10	22,0	803/227
R0329	4x16	23,5	803/228
R0330	4x25	27,5	803/229

CONSTRUCTION ACCORDING TO TE 653 AND CEI 20-45

Conductor: tinned copper conductor according to CEI EN 60228 class 5

Insulation: mica tape(s) and halogen free compound type G10 according to CEI 20-11

Sheath: halogen free compound type M1 according to CEI 20-11, colour blue

Marking: UNIKA(Italy) – “RFI item” – EF-SATRF – year

Rated voltage: 0,6/1 kV

Fire safety: CEI EN 60332-1-2, CEI EN 60332-3-24, CEI 20-37, EN 50200

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