

U-1000 RVFV-RH



Rigid armoured industrial cable with PVC hydrocarbur resistant Sheath

NORMS :

NFC 32-322: Conductors and insulated cables for installations. Rigid insulated cables in crosslinked polythene under a sheath of protection in polyvinylchlorure RH, steel armoured – Series U-1000 RVFV-RH

Flame retardant: IEC 60332-1 / NF C 32-070 2.1 category C2

RoHS: complies with the 2011/65/CE European guideline

CONSTRUCTIVE FEATURES :

Conductor: Massive bare copper 1.5 to 4 mm² - class 1 / Bare twisted copper 4 to 6 mm² - class 2

Insulation: PR or XLPE (cross linked polyethylene)

Laying up: thermoplastic filler sheath

Armour: 2 steel straps

Sheath: black PVC-RH

GENERAL FEATURES :

Operational voltage: 600 / 1000 V

Bending radius: fixed: 6 x Ø
Mobile: 16x Ø

Ambient temperature: - 25°C / + 60°C

Conductor max. permissible temperature: + 90°C

Conductor max. short-circuit temperature: + 250°C

Classification according to the external influences NF C 15-100 JUNE 2005:

AA	AD	AE	AF	AG	AH	AK	AL	BB	BC	BD	BE	CA	CB
4 to 6	7	4	1 to 3	4	1	1	1	3	4	4	1 to 3	2	1

AD7: accumulated immersion limited for 2 months.

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External agents' behaviours:

Ozone	Atmospheric Agents	Water	Oils	Acides	Solvents	Heat	Cold
Very good	Very good	good	good	good	medium	Very good	good

MARKING AND IDENTIFICATION :

NF USE U-1000 RVFV – n G s – n° of factory

According to NF C 32-081 April 2002 / HD 308 S2

Without green/yellow

Number of conductors	Colour of conductors				
2	Blue	Brown	-	-	-
3	-	Brown	Black	Grey	-
4	Blue	Brown	Black	Grey	-
5	Blue	Brown	Black	Grey	Black

With green/yellow

Number of conductors	Colour of conductors				
	Of protection	active			
3	Green-yellow	Blue	Brown	-	-
4	Green-yellow	-	Brown	Black	Grey
5	Green-yellow	Blue	Brown	Black	Grey

From the 7th conductors, the mark is realised with numerotation

APPLICATION AREAS :

- Supplying of power or of fix post links.
- Industrial installations that need a mechanical protection.
- Lay without mechanical completing protection (buried or free air)

TECHNICAL FEATURES :

Section	Ø outer approx.	I1	I2	Indicative weight
mm ²	mm	A	A	kg/km
2X1,5	13.0	34	24	210
3G1,5	13.5	29	22	240
4X1,5	14.5	29	22	278
4G1,5	14.5	29	22	278
5G1,5	15.5	29	22	310
7G1,5	13.5	18	16	245
12G1,5	17.0	14	11	370
19G1,5	19.5	12	9	530
27G1,5	19	8	7	920
37G1,5	25.8	8	7	1131

Section	Ø outer approx.	I1	I2	Indicative weight
mm ²	mm	A	A	kg/km
2X2,5	14.0	46	33	253
3G2,5	14.5	40	30	295
4G2,5	15.5	40	30	344
12G2,5	19.5	19	17	520
19G2,5	22.5	17	15	750
37G2,5	32.0	13	12	1614
2X4	15.5	59	45	311
3G4	16.0	51	40	365
4G4	17.0	51	40	430
4X4	17.0	51	40	430
5G4	18.5	51	40	495

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Section	Ø outer approx.	I1	I2	Indicative weight
mm ²	mm	A	A	kg/km
2X6	16.5	74	58	409
3G6	17.5	64	52	491
4G6	18.5	64	52	579
4X6	18.5	64	52	579
5G6	20.5	64	52	645
2X10	18.5	101	80	548
3G10	19.0	88	71	665
4G10	20.5	88	71	799
4X10	20.5	88	71	799
5G10	22.5	88	71	910
2X16	20.5	128	107	720
3G16	22.0	111	96	898
4G16	23.5	111	96	1096
4X16	23.5	111	96	1096
5G16	26.0	111	96	1290

Section	Ø outer approx.	I1	I2	Indicative weight
mm ²	mm	A	A	kg/km
2X25	24.5	162	412	1110
3G25	26.0	141	127	1320
4G25	28.0	141	127	1610
4X25	28.0	141	127	1610
5G25	31.0	141	127	1900
2X35	27.0	208	185	1370
4G35	31.5	170	157	2090
4X35	31.5	170	157	2090
(*) 5G35	35.0	174	158	2620
4X50	35.5	204	190	2710
4G50	35.5	204	190	2710
(*) 5G50	35.9	206	192	3850
4X70	37.5	252	242	4180
(*) 5G70	41.3	254	246	5240
4X95	47.5	302	293	5320

I1: permanent intensity under 30°C at free air
I2: permanent intensity under 20°C underground

Important note:

The sections of cables located by an asterisk do not appear in the board 6 of the norm NF C 32-322

So they couldn't claim at the identification marking of quality « NF-USE » on the sheath, but however, they will be according to the demands of the norm of reference.