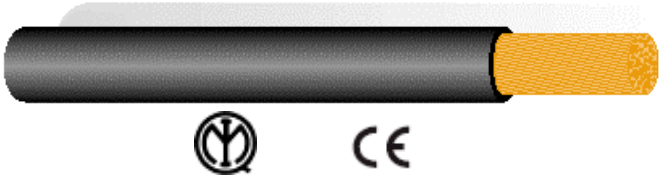


	DATA SHEET		ST-042-001-E
	N07V-K LOW VOLTAGE		Rev. 4 13/01/2009

	Construction: Fire propagation: Flame propagation: Corrosive gases or halogens: Low Voltage directive: RoHS directive:	CEI UNEL 35752 CEI 20-22 II CEI EN 60332-1-2 CEI EN 50267-2-1 2006/95/EC 2002/95/EC

DESCRIPTION

Conductor: plain copper wire, flexible, class 5

Insulation: PVC, type R2

Colour: black, blue, brown, grey, orange, pink, red, azure, violet, white, yellow/green

FUNCTIONAL CHARACTERISTICS

Rated voltage U_0/U : 450/750 V

Max. operating temperature: 70°C

Min. operating temperature (without mechanical shocks): -10°C

Max. short circuit temperature: 160°C

SPECIAL FEATURES

Good sliding properties in pipes, good flexibility and abrasion resistance, easy stripping.

INSTALLATION CONDITIONS

Minimum installation temperature: 5°C

Recommended minimum bending radius: 4 times the cable diameter

Recommended maximum tensile stress: 50 N/mm² of the cross-section of the copper

USE AND INSTALLATION METHOD

For use in fire risk areas.

Fitted inside pipes or ducts, either visible or recessed or similar closed systems. Suitable for static, protected use inside switching or control equipment, for alternating current up to 1000 V or direct current up to 750 V to ground.

1 mm² section is suitable only for circuits of lifting devices and machines.

In fire risk installation the max. operating temperature must not be above 55°C.

Not suitable for external use.

(CEI 20-40)

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Formation	Approx. conductor diameter	Average insulation thickness	Max. external diameter	Max. electrical resistance at 20°C	Approx. cable weight	Current rating in air (30°C)*	
						in pipe	in open duct
n° × mm²	mm	mm	mm	Ω/km	kg/km	A	A
1 × 1	1,3	0,7	3,0	19,5	15	12	-
1 × 1,5	1,5	0,7	3,4	13,3	20	15,5	-
1 × 2,5	2,0	0,8	4,1	7,98	31	21	-
1 × 4	2,5	0,8	4,8	4,95	45	28	-
1 × 6	3,0	0,8	5,3	3,30	65	36	-
1 × 10	4,0	1,0	6,8	1,91	109	50	57
1 × 16	5,0	1,0	8,7	1,21	163	68	76
1 × 25	6,2	1,2	10,2	0,780	251	89	101
1 × 35	7,4	1,2	11,7	0,554	347	110	125
1 × 50	8,9	1,4	13,9	0,386	493	134	151
1 × 70	10,5	1,4	16,0	0,272	680	171	192
1 × 95	12,2	1,6	18,2	0,206	910	207	232
1 × 120	13,8	1,6	20,2	0,161	1140	239	269
1 × 150	15,4	1,8	22,5	0,129	1420	275	309
1 × 185	16,9	2,0	24,9	0,106	1730	314	353
1 × 240	19,5	2,2	28,4	0,0801	2270	369	415

* Permissible current rating values are according to a three-phase circuit

REVISION LEVEL

4	13/01/2009	Data update	Generic application	S1-S2	R&D	QA	R&D
Rev.	Date	Reason	Application	Units	Red.	Ver.	App.

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