

	DATA SHEET	ST-047-001-E
	NPI® FROR 300/500 V LOW VOLTAGE	Rev. 2 17/03/2009

	Construction:	IMQ-CPT-007; CEI 20-20/1
	Fire behaviour:	CEI 20-22 II CEI EN 60332-1-2 CEI EN 50267-2-1
 	Corrosive gases:	CEI EN 50267-2-1
	Low Voltage directive:	2006/95/EC
	RoHS directive:	2002/95/EC

DESCRIPTION

Conductor: plain copper wire, flexible, class 5

Insulation: PVC, type TI2

Outer sheath: PVC, type TM2

Colour: grey

NPI = Non Propagante l'Incendio

FUNCTIONAL CHARACTERISTICS

Rated voltage U_0/U : 300/500 V

Max. operating temperature: 70°C

Min. operating temperature (without mechanical shocks): -15°C

Max. short circuit temperature: 160°C

SPECIAL FEATURES

Good resistance to mechanical loads and chemical agents. Good flexibility and good behaviour to low temperatures.

INSTALLATION CONDITIONS

Minimum installation temperature: 0°C

Recommended minimum bending radius: 10 times the cable diameter for mobile use, 4 times for static use

Recommended maximum tensile stress: 15 N/mm² of the cross-section of the copper for mobile use, 50 N/mm² for static use

USE AND INSTALLATION METHOD

Cables for signal and command transmission, for both static and mobile installation.

Suitable for static installations in places with fire risk as fairs, residential and commercial building. In industrial building only in pipes and ducts.

Can be laid indoor in dry, humid or wet environments. Can be temporary used outdoor.

It must not be laid underground.



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LOW VOLTAGE

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Formation	Approx. conductor diameter	Average insulation thickness	Average sheath thickness	Max. external diameter	Max. electrical resistance at 20°C	Approx. cable weight	Current rating (30°C)*		
							in pipe	mobile use	static use
n° x mm ²	mm	mm	mm	mm	Ω/km	kg/km	A	A	A
7 G 1	1,3	0,6	1,0	11,1	19,5	151	9	9	10
10 G 1	1,3	0,6	1,2	14,3	19,7	220	8,5	8	9,5
12 G 1	1,3	0,6	1,2	14,8	19,7	250	8	7,5	9
16 G 1	1,3	0,6	1,3	16,5	19,7	330	7	7	8
19 G 1	1,3	0,6	1,4	17,7	19,7	385	7	6,5	7,5
24 G 1	1,3	0,6	1,5	20,7	19,8	485	6,5	6,5	7
27 G 1	1,3	0,6	1,6	21,4	19,8	600	5,5	5	6,5
7 G 1,5	1,5	0,7	1,2	13,1	13,3	215	11,5	11	13
10 G 1,5	1,5	0,7	1,3	16,7	13,3	305	10,5	10	12
12 G 1,5	1,5	0,7	1,4	17,5	13,4	345	9,5	9,5	11
16 G 1,5	1,5	0,7	1,5	19,4	13,4	455	9	8,5	10
19 G 1,5	1,5	0,7	1,5	20,5	13,4	520	8,5	8	9,5
24 G 1,5	1,5	0,7	1,7	24,3	13,4	675	8	7,5	9
27 G 1,5	1,5	0,7	1,8	25,0	13,5	720	7	6,5	8

* Permissible current rating values are according to a single-phase circuit with all cores loaded (except for the green/yellow)

REVISION LEVEL

2	17/03/2009	Data update	Generic application	S2	R&D	QA	R&D
Rev.	Date	Reason	Application	Units	Red.	Ver.	App.

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