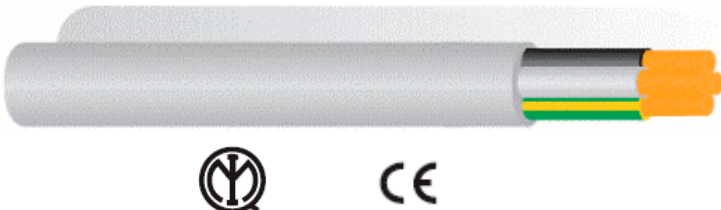


	DATA SHEET		ST-048-001-E
	NPI® FROR 450/750 V LOW VOLTAGE		Rev. 4 17/03/2009

	Construction:	IMQ-CPT-007; CEI 20-20/1
	Fire behaviour:	CEI 20-22 II
	Corrosive gases:	CEI EN 60332-1-2
	Low Voltage directive:	CEI EN 50267-2-1
	RoHS directive:	2006/95/EC
		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 : 450/750 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

Suitable for both static and mobile installations in places with fire risk, in industry and residential building.

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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DATA SHEET

ST-048-001-E

NPI® FROR 450/750 V

LOW VOLTAGE

Rev. 4
17/03/2009

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
2 x 1	1,3	0,7	1,0	8,7	19,5	74	13,5	12,5	15
2 x 1,5	1,5	0,7	1,0	9,2	13,3	89	17	17	22
2 x 2,5	2,0	0,8	1,2	11,2	7,98	134	24	22,5	30
2 x 4	2,5	0,8	1,2	12,5	4,95	178	30	30	40
2 x 6	3,0	0,8	1,3	13,9	3,30	242	40	40	50
3 G 1	1,3	0,7	1,0	9,1	19,5	88	13,5	12,5	15
3 G 1,5	1,5	0,7	1,0	9,8	13,3	108	17	17	22
3 G 2,5	2,0	0,8	1,2	11,9	7,98	163	24	22,5	30
3 G 4	2,5	0,8	1,3	13,5	4,95	227	30	30	40
3 G 6	3,0	0,8	1,4	14,9	3,30	305	40	40	50
4 G 1	1,3	0,7	1,0	9,9	19,5	105	12	11,5	13,5
4 G 1,5	1,5	0,7	1,1	10,9	13,3	133	15,5	15	18,5
4 G 2,5	2,0	0,8	1,2	12,9	7,98	200	21	21	25
4 G 4	2,5	0,8	1,3	14,7	4,95	278	28	28	35
4 G 6	3,0	0,8	1,4	16,3	3,30	375	35	36	43
5 G 1	1,3	0,7	1,1	11,1	19,5	135	12	11,5	13,5
5 G 1,5	1,5	0,7	1,2	12,0	13,3	167	15,5	15	18,5
5 G 2,5	2,0	0,8	1,3	14,3	7,98	252	21	21	25
5 G 4	2,5	0,8	1,5	16,5	4,95	351	28	28	35
5 G 6	3,0	0,8	1,5	18,0	3,30	476	35	36	43

* Permissible current rating values are according to:

- a single-phase circuit for two-core cables
- a three-phase circuit for three, four and five-core cables

REVISION LEVEL

4	17/03/2009	Data update	Generic application	S1-S2	R&D	QA	R&D
Rev.	Date	Reason	Application	Units	Red.	Ver.	App.

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