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Wire Selection Guidelines for Wires Rated at 200–450°C

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<u>אפווא איכ 73-2000 (אבט זס)</u> Page i

Foreword

This standard has been developed by the WC 73 task force under the Electronics/Communications and Control Cable Subcommittee (members as listed below) of the High Performance Wire and Cable Section of NEMA in close coordination between manufacturers, users, third-party certifying agencies and others having specialized experience. The High Performance Wire and Cable Section of NEMA periodically reviews this standard for any revisions necessary to keep it up to date. Proposed revisions or comments should be submitted to:

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At the time of reaffirmation, the section comprised the following companies:

AFC Cable Systems	New Bedford, MA
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Cable USA LLC.	Naples, FL
Champlain Cable Corporation	Colechester, VT
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Southwire Company	Carrollton, GA
The Monroe Cable Company, Inc.	Middletown, NY
TE Connectivity	Menlo Park, CA
WireMasters, Inc.	Columbia, TN

This standard was developed with the participation of members from The Committee on Mold Safety of the Society of the Plastics Industry, Washington, D.C.

This is a preview of "NEMA WC 73-2000 (R20...". Click here to purchase the full version from the ANSI store.

Page ii

CONTENTS

		Foreword	i
Sectio	on 1	Scope	1
Sectio	on 2	Referenced Standards.	2
Sectio	on 3	Background	3
Sectio	on 4	Description of Conductors	4
4.1	1	Conductor Composition	4
4.2	2	Temperature Range	4
4.3	3	Gauge Size	4
Sectio	on 5	Ampacities And Correction Factors.	6
5.1	1	Introduction	6
5.2	2	Base Ampacities	6
5.3	3	Temperature Correction Factors	8
5.4	4	Correction Factors For More Than Three Conductors	9
Sectio	on 6	Ampacity Calculation Examples From The Hot Runner Industry	10
6.	1	Background	10
6.2	2	General Calculation Example	11
Sectio	on 7	Summary and Conclusions	21
Table	2		
4-1	Tempera	iture Range	4
4-2	Typical V	Vire Types	5
5-1	Allowable Ampacities of Insulated Conductors Rated 0 Through 2000 V, 60°C to 90°C (140°F to 194°F) Not More Than Three Current-Carrying Conductors in Raceway or Cable or Earth (Directly Buried), Based on Ambient Temperatures of 40°C (104°F)		
5-2	Allowable Ampacities of Insulated Conductors Rated 0 Through 2000 V, 60° to 90°C (140°F to 194°F) Not More Than Three Current-Carrying Conductors in Raceway or Cable or Earth (Directly Buried), Based on Ambient Temperatures of 40°C (104°F)		
5-3	Correction Factors for Ambient Temperatures Other Than 40°C (104°F), Multiply the Ampacities Shown in Tables 5-1 and 5-2 by the Appropriate Factor Shown Below		8
5-4	Adjustme Cable (N	justment Factors for More Than Three Current-Carrying Conductors in a Raceway or	
6-1	Actual Lo	Actual Load Based on Number of Conductors11	
6-2	Wiring In	Niring Information19	
Figure			
1	Actual L 2-10 Ra	Load Based On Number of Conductors for 12 AWG NCC CLASS	12

Page 1

Section 1 Scope

This standard contains guidelines for calculating amperages and selecting wires for temperatures from 200°C to 450°C and for voltage ratings up to and including 1000 volts rms.

Ampacity charts, temperature correction factors, and derating factors are provided along with extensive examples of calculations.

This information is provided to assist the user in their selection of a wire or cable for a particular application. This guideline contains the best engineering estimates for calculation, but it cannot guarantee a successful performance. It is recommended that a trial installation be prepared and appropriate evaluations be conducted to assure acceptable performance of the completed systems.