REPORT 0402 – CPR - 195388

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O100612-195388-3

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Classification of reaction to fire for electric cables in accordance with EN 13501-6

1 Introduction

This classification report defines the classification assigned to the "TFXP MR Flex" (as described by the sponsor) in accordance with the procedure given in EN 13501-6.

2 Details of classified product

2.1 General

The product family "TFXP MR Flex" that is the subject of this classification is defined as an unarmoured multicore power cable (according to EN 50575) family.

2.2 Product description

The product family named "TFXP MR Flex" (as described by the sponsor), is described in the reports provided in support of classification listed in 3.1.

Cables included in the cable family.

Article number	Name	Diameter (mm)
1019155	1 x 16	9,2
1019156	1 x 25	11,0
1019157	1 x 35	12,1
1019158	1 x 50	13,8
1019159	1 x 70	15,9
1019160	1 x 95	17,6
1019161	1 x 120	19,2
1019162	1 x 150	21,5
1019163	1 x 185	23,9
1019164	1 x 240	26,9
1019165	1 x 300	29,6
1019166	2 x 1.5	8,6
1019167	2 x 2.5	9,6
1019168	2 x 4	11,2

Article number	Name	Diameter (mm)
1019169	2 x 6	12,1
1019170	2 x 10	13,4
1019171	3 G 1.5	9,1
1019172	3 G 2.5	10,1
1019173	3 G 4	11,6
1019174	3 G 6	12,8
1019175	3 G 10	14,2
1019176	3 G 16	17,3
1019177	3 G 25	19,8
1019178	3 G 35	22,5
1019184	4 G 1.5	9,8
1019185	4 G 2.5	11,0
1019186	4 G 4	12,6
1019187	4 G 6	14,2
1019188	4 G 10	15,7
1019189	4 G 16	19,1
1019179	4 G 25	21,9
1019180	4 G 35	25,1
1019181	4 G 50	29,5
1019098	4 G 70	36,1
1093069	4 G 95	40,2
1028648	4 G 120	44,6
1019190	5 G 1.5	10,7
1019191	5 G 2.5	12,6
1019192	5 G 4	13,8
1019193	5 G 6	15,6
1019194	5 G 10	17,2
1019195	5 G 16	21,1
1019196	5 G 25	24,4
1019182	5 G 35	28,2
1019183	5 G 50	32,8
1019198	5 G 70	39,2
1093496	5 G 95	46,8
1093452	3 G 2.5	10,1
1093453	3 G 4	11,6
1093454	3 G 6	12,8
1093461	4 G 4	12,6
1093462	4 G 6	14,2
1093463	4 G 10	15,8

Article number	Name	Diameter (mm)
1093464	4 G 16	19,1
1093468	5 G 2.5	12,6
1093469	5 G 4	13,8
1093470	5 G 6	15,6
1093471	5 G 10	17,4
1093472	5 G 16	21,1

3 Reports and results in support of this classification

3.1 Reports

Name of laboratory	Name of sponsor	Report reference no	Test method and date/field of application rules and date
RISE	NEK Kabel AS	O100612-195388 O100612-195388-1	EN 60332-1-2:2004+ A1:2015+A11:2016+A12:2020
RISE	NEK Kabel AS	O100612-195388-2	CLC/TS 50576:2016 NB-CPR/SH02-16/681rev3, clause 4:2014

3.2 Results

Test method	Parameter	Number of tests	Results Continuous parameter mean *m*	Compliance with parameters
EN 60332-1-2		2		
	$H \leq 425$ *mm*		(-)	Compliant

4 Classification and field of application

4.1 Reference of application

This classification has been carried out in accordance with EN 13501-6:2018.

4.2 Classification

The product family “TFXP MR Flex” (as described by the sponsor) in relation to its reaction to fire behavior is classified:

E_{ca}

The format of the reaction to fire classification for electrical cables is:

Fire behaviour
E_{ca}

4.3 Field of application

This classification is valid for the following product parameters as determined in the extended application process according to CLC/TS 50576NB-CPR/SH02-16/681rev3, clause 4:

Cable diameter [mm] 8.6 - 46.8

The classification is valid for all end use applications.

5 Limitations

This classification document does not represent type approval or certification of the product.

The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of AVCP system 3 and CE marking under Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR).

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

RISE Research Institutes of Sweden AB
Fire and safety - Reaction to Fire Medium Scale Lab

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