



REQUEST NUMBER: 124885

ELEKTROTEKNİK LABORATUVARI GEBZE MÜDÜRLÜĞÜ
Electrotechnical Laboratory (Gebze)

Yapı Malzemeleri Yönetmeliđi(305/2011/AB)
Construction Products Regulation(305/2011/EU)

ONAYLANMIŞ KURULUŞ : 1783
NOTIFIED BODY : 1783

TS EN 13501-6

YANGINA TEPKİ SINIFLANDIRMA RAPORU
REACTION TO FIRE CLASSIFICATION REPORT

Talep Eden
Applicant
Adresi

: ETK KABLO SANAYİ VE TİCARET A.Ş..

: Osmangazi Mah. Müstesna Sok. No:37 Sancaktepe/İSTANBUL

Address

Name and address of Production Place
Markası, Ticari Modeli, Tipi
Trade Mark, Commercial Model, Type

: MFT-NMA-SHFJeFRP

YANGINA TEPKİ SINIFI
REACTION TO FIRE CLASSIFICATION

Dca-s1a,d1,a1

Rapor Deđerlendirme Tarihi
Date of Issue

: 04.08.2022

CE

Onaylayan
Approved

.....

Bu rapor 3 sayfadır ve kısmen çođaltılamaz.

This report is composed of 3 page and cannot be copied partially.

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REQUEST NUMBER: 124885

CLASSIFICATION OF REACTION TO FIRE FOR ELECTRIC CABLES IN ACCORDANCE WITH TS EN 13501-6

Sponsor / Manufacturer	ETK KABLO SANAYİ VE TİCARET A.Ş..
Place of Manufacture	Osmangazi Mah. Müstesna Sok. No:37 Sancaktepe/İSTANBUL
Prepared by	TSE Elektroteknik Laboratuvarı Gebze Müdürlüğü Cumhuriyet Mah. 2258 Sokak Gebze / KOCAELİ - TÜRKİYE
Notified Body No	1783
Regulation	Construction Products Regulation (305/2011/EU)

1- Introduction

This classification report defines the classification of cable below in accordance with the procedures given in TS EN 13501-6

2- Details of classified product

Trade name, Type of cable	MFT-NMA-SHFJeFRP	
Tested cable and size and overall diameter	1- MFT-NMA-SHFJeFRP 12 FO 2- MFT-NMA-SHFJeFRP 128 FO	7,61 mm 12,52 mm

3- Test Reports and results in support of this classification

3.1 Reports

Enter details of reports here as applicable

Name of Laboratory	Test reports no and Date	Test methods
TSE Gebze Electrotechnical Laboratory	230763 / 08-22	TS EN 50575/A1: 2016 TS EN 60332-1-2/ A12: 2021 TS EN 50399/A1:2016 TS EN 60754-2/A1:2020 TS EN 61034/A2:2020
TSE Gebze Electrotechnical Laboratory	230720 / 08-22	TS EN 50575/A1: 2016 TS EN 60332-1-2/ A12: 2021 TS EN 50399/A1:2016 TS EN 60754-2/A1:2020 TS EN 61034/A2:2020

3.2 Results

The table below show the worst results of the classification parameters :

Test method	Parameter	No. Tests	Results	
			Continuous parameter Mean (m)	Compliance with parameters
TS EN 60332-1- A12: 2021	H (mm)	1	114	≤ 425mm / Dca compliant
TS EN 50399/A1:2016	FS (m)	1	1,81	Dca compliant
	HRRav (kW)		46,86	≤ 400 kW /Dca compliant
	THR (MJ)		24,91	≤ 70 MJ /Dca compliant
	FIGRA (W/s)		131,56	≤ 1300 W/s /Dca compliant
	SPRav (m ² /s)		0,04	≤ 0,25 m ² /s / s1 compliant
	TSP (m ²)		8,22	≤ 50 m ² / s1 compliant
	Flaming Droplets		d<10	d1
TS EN 60754-2/A1:2020	pH	-	6,14	a1 compliant
	Conductivity (μS/mm)	-	1,06	a1 compliant
TS EN 61034/A2:2020	Smoke density	-	89	s1a compliant

The table below show the worst results and the associated safety margin for each of the classification parameters :

Parameter	Test results	Safety margin	Results obtained for classification
H (mm)	114	-	114
FS (m)	1,81	-	1,81
HRRav (kW)	46,86	40	86,86
THR (MJ)	24,91	7	31,91
FIGRA	131,56	130	261,56
SPRav (m ² /s)	0,04	0,05	0,09
TSP (m ²)	8,22	10	9,22
Flaming droplets	d1	-	d1
pH	6,14	-	6,14
Conductivity (μS/mm)	1,06	-	1,06



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1- Classification and field of application

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

Fire Behaviour	SmokeProduction	FlamingDroplets	Acidity
<i>Dca</i>	<i>sla</i>	<i>dl</i>	<i>a1</i>

Reaction to Fire Classification: ***Dca-s1a,dl,a1***

1- Field of Application

This classification is valid for the cables listed below as determined in the extended application process according to CLC-FprTS 50576-2016.

Cable Family	Number of Cores	Conductor size	Reaction to Fire Classification
MFT-NMA-SHFJeFRP		12 FO to 256 FO	<i>Dca-s1a,dl,a1</i>

Prepared by

BAYRAM AY

TECHNICAL CHIEF

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