

Fire Test Laboratory

**Notified Body
Nr: 2184**

AB-0556-T

ERA-23-295

12-23

**CLASSIFICATION OF REACTION TO FIRE
IN ACCORDANCE WITH
EN 13501-6:2018**

Sponsor	ETK KABLO SANAYİ VE TİCARET ANONİM ŞİRKETİ Osmangazi Mah. Müstesna Sok. No: 37, Sancaktepe, İstanbul / TÜRKİYE / TÜRKİYE
Tested and prepared by	EFFECTIS ERA AVRASYA TEST VE BELGELENDİRME A.Ş. Dilovası OSB Mah. Fırat Cad. No: 18 Dilovası, Kocaeli / TÜRKİYE
Product name	Mini SLT-NMA-SHJF (SM/MM)
Report no.	ERA-23-295
Issue number	1/2
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This classification report consist of 6 pages and may only be used or reproduced in its entirety.

1. INTRODUCTION

This classification report defines the classification assigned to “Mini SLT-NMA-SHJF (SM/MM)” in accordance with the procedures given in EN 13501-6:2018.

2. DETAILS OF CLASSIFIED PRODUCT

2.1. General:

Mini SLT-NMA-SHJF (SM/MM) is defined as a “type of classified product”. Its classification is valid for the following end use application:

EN 50575:2014/A1:2016 - Power, control and communication cables - Cables for general applications in construction works subject to reaction to fire requirements

2.2. Description:

Mini SLT-NMA-SHJF (SM/MM) - 2 F - 6,1 mm and Mini SLT-NMA-SHJF (SM/MM) - 16 F - 7,1 mm are fully described in the test reports in support of the classification listed in clause 3.1.

Manufactured plant: ETK KABLO SANAYİ VE TİCARET ANONİM ŞİRKETİ

Osmangazi Mah. Müstesna Sok. No: 37, Sancaktepe, İstanbul / TÜRKİYE / TÜRKİYE

Tested product types:

Product name	Fibre count	Tube count	External overall diameter [mm]	χ parameter	Cable structure
Mini SLT-NMA-SHJF (SM/MM)	2	1	6,1	22	HFFR UV outer sheath, Polyester ripcord, Glass yarn strength member, Thixtropic gel filling material, PBT loose tube, Fibre
	16	1	7,1	17	

3. REPORTS AND RESULTS IN SUPPORT OF CLASSIFICATION

3.1. Reports

Name of laboratory	Name of sponsor	Report ref. no.	Test method and date Field of application rules and date
EFFECTIS ERA AVRASYA TEST VE BELGELENDİRME A.Ş.	ETK KABLO SANAYİ VE TİCARET ANONİM ŞİRKETİ	FTST231233 FTST231237	EN 50399:2022
		FTST231234 FTST231238	EN 60332-1-2:2004 EN 60332-1-2:2004/A1:2015 EN 60332-1-2:2004/A11:2016 EN 60332-1-2:2004/A12:2020
		FTST231235 FTST231239	EN 60754-2:2014 EN 60754-2:2016/A1:2020

3.2. Results

Test method	Parameter	Number of test	Result	
			Continuous parameter mean (m)	Compliance parameters
EN 60332-1-2 ⁽¹⁾ Flame exposition: 60 s	H (mm)	1	70	(-)
EN 50399 ⁽¹⁾	F _s (m)	1	1,68	(-)
	Peak HRR (kW)		42	(-)
	THR _{1200s} (MJ)		14,1	(-)
	FIGRA (W/s)		202,7	(-)
	Peak SPR (m ² /s)		0,093	(-)
	TSP _{1200s} (m ²)		34,7	(-)
	Flaming droplet(s)/particle (s)		None	(-)
EN 60754-2 ⁽¹⁾	pH	3	5,32	(-)
	Conductivity (µS/mm)	3	0,62	(-)
EN 60332-1-2 ⁽²⁾ Flame exposition: 60 s	H (mm)	1	78	(-)
EN 50399 ⁽²⁾	F _s (m)	1	3,3	(-)
	Peak HRR (kW)		111,2	(-)
	THR _{1200s} (MJ)		53,6	(-)
	FIGRA (W/s)		229,3	(-)
	Peak SPR (m ² /s)		0,328	(-)
	TSP _{1200s} (m ²)		132,6	(-)
	Flaming droplet(s)/particle (s)		3, 6, 3, 2	(-)
EN 60754-2 ⁽²⁾	pH	3	5,31	(-)
	Conductivity (µS/mm)	3	0,63	(-)

(-): Not applicable
(1): Mini SLT-NMA-SHJF (SM/MM) - 2 F - 6,1 mm
(2): Mini SLT-NMA-SHJF (SM/MM) - 16 F - 7,1 mm

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

Test method	Parameter	Safety margin	Classification result	Compliance parameters
EN 60332-1-2	H (mm)	(-)	78	≤ 425 (Dca)
EN 50399	Peak HRR (kW)	40	151,2	≤ 400 (Dca)
	THR _{1200s} (MJ)	7	60,6	≤ 70 (Dca)
	FIGRA (W/s)	130	359,3	≤ 1300 (Dca)
	Peak SPR (m ² /s)	0,3	0,628	≤ 1,5 (s2)
	TSP _{1200s} (m ²)	80	212,6	≤ 400 (s2)
	Flaming droplet(s)/particle (s)	(-)	6	≤ 10 (d1)
EN 60754-2	pH	(-)	5,31	> 4,3 (a1)
	Conductivity (μS/mm)	(-)	0,63	< 2,5 (a1)
EN 61034-2	Transmittance (%)	(-)	100	kaldır
(-): Not applicable				

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1. Reference of classification

This classification has been carried out in accordance with the clauses 9.4, 9.9.5, 9.10, 9.11 of EN 13501-6:2018.

4.2. Classification

Mini SLT-NMA-SHJF (SM/MM) in relation to its reaction to fire behaviour is classified:

D_{ca}

The additional classification in relation to smoke production is:

s2

The additional classification in relation to flaming droplets / particles is:

d1

The additional classification in relation to acidity is:

a1

The format of the reaction to fire classification for *Mini SLT-NMA-SHJF (SM/MM)* is:

Fire behaviour		Smoke production				Flaming droplets			Acidity	
D _{ca}	-	s	2	,	d	1	,	a	1	

Reaction to fire classification: D_{ca}-s2,d1,a1

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 50576:2022*

Cable family	Mini SLT-NMA-SHJF (SM/MM)
Cable family specified in CLC/TS 50576:2022	Optical fibre cable
External overall diameter [mm]	6,1 - 7,1
χ parameter	17 - 22
Colour	Indifferent
Fibre type	Indifferent
Shape	Circular
Manufacturing plant	Article 2.2
Cable structure	
HFFR UV outer sheath	
Polyester ripcord	
Glass yarn strength member	
Thixtropic gel filling material	
PBT loose tube	
Fibre	

The classification is valid for all end use applications.

List of classified cables				
2 Fibre	4 Fibre	6 Fibre	8 Fibre	12 Fibre
16 Fibre	20 Fibre	24 Fibre		

5. LIMITATION

5.1. Restrictions

This classification report is valid provided that the technical specifications of product are within the limits in accordance with the field of application clause 4.3.

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 system 3 attestation of conformity and CE marking under the 305/2011/EU Construction Products Regulation.

The manufacturer has made a declaration, which is held on file. This confirms that the products design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate.

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.

Signed:



Approval:

e-signed

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Uğur ÇAVAŞ
Person in the charge of tests

e-signed

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Ali BAYRAKTAR
Laboratory manager