taihan
CABLE & SOLUTION

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RF Coaxial Cable
Railway Solution Edition

CPR CE CERTIFIED

TCE- 0104-2023

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CABLE & SOLUTION



Dangjin Plant, Korea

The global cable & solution company, Taihan moves forward to a better future

Taihan, which was established as the first electric wire company in Korea,
paved the way for development of the fields of power and communication cables and base metal,
and has been leading the development of the global cable market as well as Korea market.
Today, Taihan, the company which recently opened a new chapter as a proud member of the Hoban Group,
endeavors to continue to lead the global electric wire industry as a successful enterprise for the next century
based on more upgraded products, proactive investment, and relentless innovation.

COMMUNICATION CABLE

Taihan manufactures high-performance, high-quality products with accumulated technology and know-how

Taihan has played a key role in establishing the global communication network by manufacturing various products in the copper communication and optical cables fields. Taihan will continue supplying world-class cables that enable faster, safer, and larger data transmission to further advance the communication technology in the future.



Railway RF Solution

K26 50ohm Radiant Cable 1 ¼" Flat Type CPR CE Certified 5

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K26 50ohm Radiant Cable 1 ¼"

Flat Type CPR CE Certified

Identification
K26 RCX 1 ¼" Radiating Cable Flat Type

CPR CE Grade
B2ca s1a d0 a1



Dimension

Item \ Size		RCX 33D(1 ¼") FLAT FR
Inner Conductor	Material / Diameter	Copper Tube / 13.5 ± 0.5
Insulation	Material	Highly Expanded Polyethylene by Gas Injection
		Glass Tape
Outer Conductor	Material	Overlapping Copper Foil With Slot Groups
	Thickness / Diameter	Approximately 1.0 / 37.1 ± 0.5
1st Jacket	Material / Diameter	LSZH FR Black Polyethylene 41.0 ± 2.0
2nd Jacket	Material / Diameter	LSZH FR Black Polyethylene with Aramid Yarn / 45.0 ± 2.0

Electric

Item \ Production		Radiant Cable Flat Type
		800MHz type
DC Resistance	Inner / Outer (Ω/km)	Max. 0.75 / Max. 1.7
Attenuation [dB/km] At 20°C Nom.	800MHz	31
	860MHz	34
Coupling Loss[dB] [50% / 95%]Nom.	800Mhz	67 / 75
	860MHz	68 / 79

Assemblies

Patented Telcon N Type Connector Jack and Plug

Patent No.
1010437440000

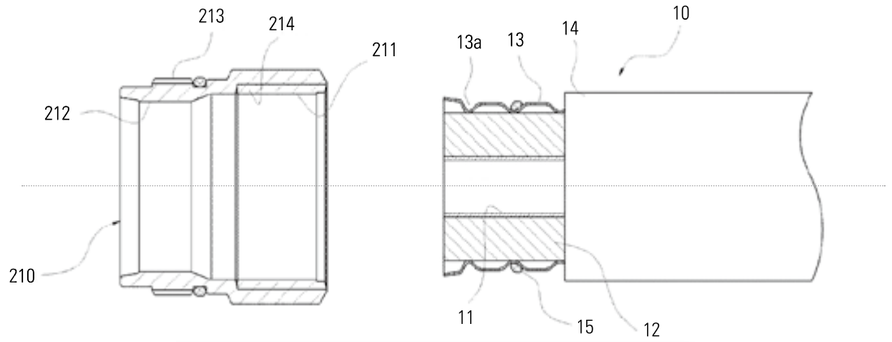
Published Date
27 Jun. 2011

Right Holder

Patent Authorized
Korean Intellectual Property Office



Scope of Claims

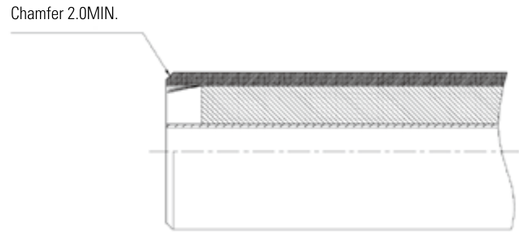


- Two pieces that are assembled together
- Rubber ring surrounding the screw threads
  * Tighter seal
  * Immersion Proof

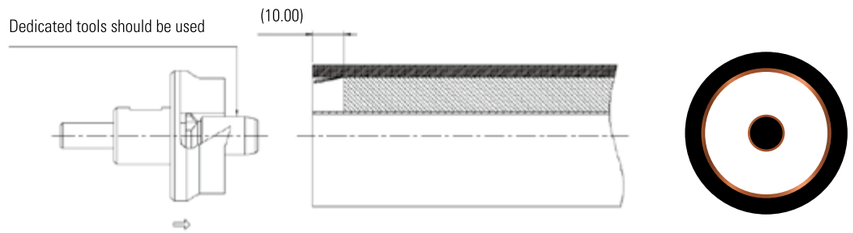


Type Connector Jack and Plug Assemblage

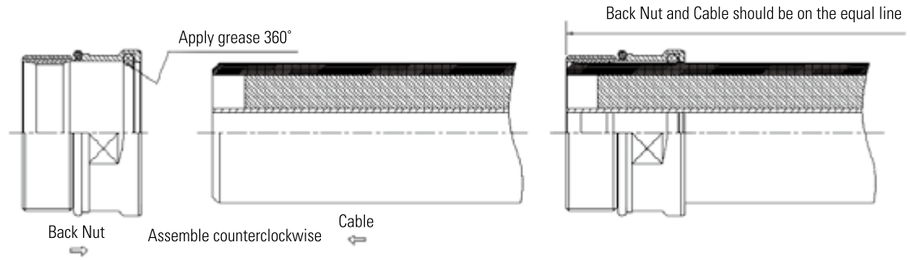
Step 1. Use a knife to create a chamfer outside the cable



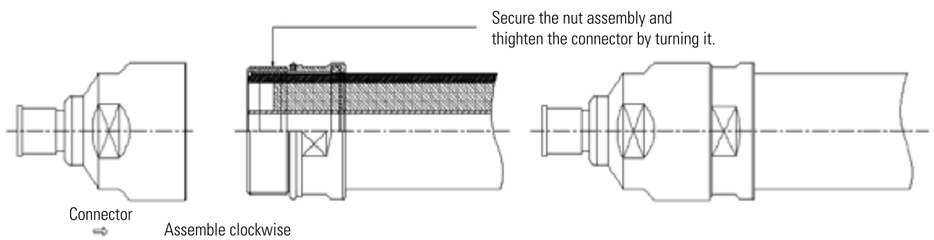
Step 2. Use the blade to cut out the insulation



Step 3. Apply grease around the back nut then screw it into the cable



Step 4. Squeeze in the connector and the back nut with spanner



Assemblies

Telcon N Type Connector
FEMALE Data Sheet

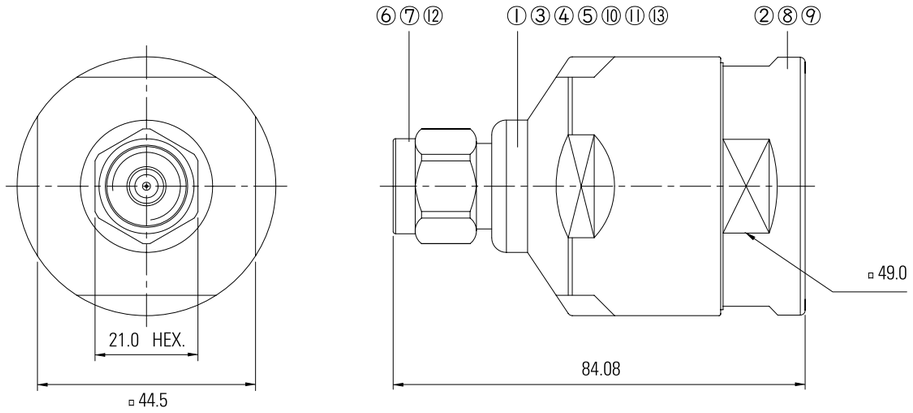
Frequency Range DC ~ 1.8GHz

Impedence 50Ω NOMINAL

VSWR ≤ 1.20@900MHz
1.25@1.8GHz

Insertion Loss 0.05 x √f (f:GHz)

Cable Type RCX 33D (1 1/4") Flat FR_TAIHAN CABLE_O.D 44.5±0.3



Dimension / Composition

NO	Part Name	Specification	Q'TY
1	Body	Bs(C3604 BD), TIP Plating	1
2	Back Nut	Bs(C3604 BD), TIP Plating	1
3	Insulator	TEFLON(PTFE)	1
4	PIN	Bs(C3604 BD), Ag Plating	1
5	PIN	Bs(C3604 BD), Ag Plating	1
6	C Ring	Phoshor Bronze (KS D 5102, 5191W)	1
7	Coupling Nut	Bs(C3604 BD), TCP Plating	1
8	Gasket	Slicone Rubber(Red)	1
9	Gasket	Slicone Rubber(Red)	1
10	Gasket	Slicone Rubber(Red)	1
11	Gasket	Slicone Rubber(Red)	1
12	Gasket	Slicone Rubber(Red)	1
13	Round Head Screw	M2.6*0.45*8.0, STD304	1

Telcon N Type Connector
MALE Data Sheet

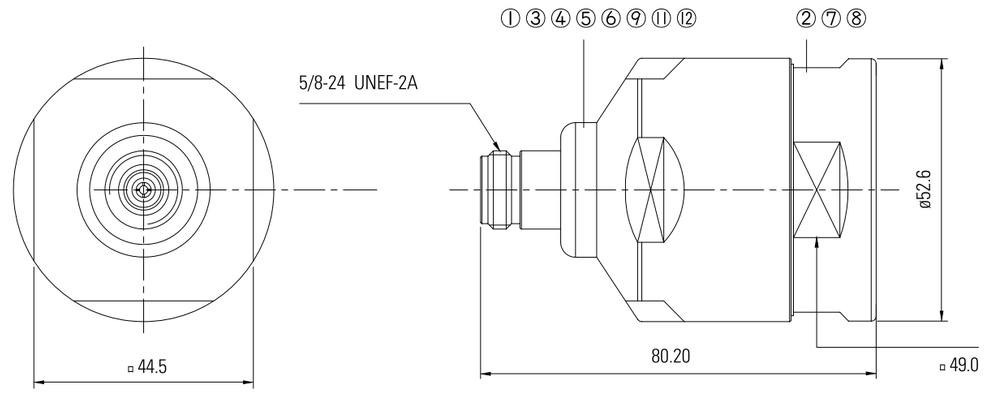
Frequency Range DC ~ 1.8GHz

Impedence 50Ω NOMINAL

VSWR ≤ 1.20@900MHz
1.25@1.8GHz

Insertion Loss 0.05 x √f (f:GHz)

Cable Type RCX 33D (1 1/4") Flat FR_TAIHAN CABLE_O.D 44.5±0.3



Dimension / Composition

NO	Part Name	Specification	Q'TY
1	Body	Bs(C3604 BD), TIP Plating	1
2	Back Nut	Bs(C3604 BD), TIP Plating	1
3	Insulator	TEFLON(PTFE)	1
4	PIN	Bs(C3604 BD), Ag Plating	1
5	PIN	Bs(C3604 BD), Ag Plating	1
6	PIN	Bs(C3604 BD), Ag Plating	1
7	Gasket	Slicone Rubber(Red)	1
8	Gasket	Slicone Rubber(Red)	1
9	Gasket	Slicone Rubber(Red)	1
10	Gasket	Slicone Rubber(Red)	1
11	Round Head Screw	M2.6*0.45*8.0, STD304, Passicity	1
12	Cap	Poly ethylene	1
13	Box Package	[L-14]	1

K26 50ohm Radiant Cable 1/2" 7/8"

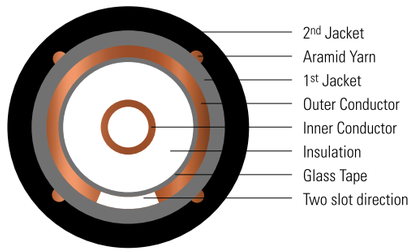
Corrugated Type CPR CE Certified

Identification

K26 RCX 1/2" & 7/8" Radiating Cable Corrugation Type
Two slot (180dgree opposite direction)

CPR CE Grade

B2ca s1a d0 a1







Jacket Peeler

Dimension

Item	Size	Radiant Cable Corrugated Type	
		1/2"	7/8"
Inner Conductor	Material / Diameter	Copper clad Al wire	Copper Tube
Insulation	Material	Highly Expanded Polyethylene by Gas Injection	
		Glass Tape	
Outer Conductor	Material	Corrugated copper Tape with slots	
	Thickness / Diameter	Nom.15.1	Nom.25.5
1st Jacket	Material	LSZH FR Black Polyethylene	
	Diameter	Nom.17.5	Nom.28.5
2nd Jacket	Material	LSZH FR Black Polyethylene with Aramid Yarn	
	Diameter	Nom.20.8	Nom.31.5

Electric

Item	Production	Radiant Cable Corrugated Type	
		1/2"	7/8"
DC Resistance	Inner / Outer (Ω/km)	1.8/2.8	1.9/2.0
Attenuation[dB/km] At 20°C	90MHz	28	15
	150MHz	38	20
	450MHz	67	35
	850MHz	95	51
Coupling Loss[dB] [50% / 95%]	90MHz	63/73	62/72
	150MHz	63/73	62/72
	450MHz	79/91	74/85
	850MHz	83/90	76/86

VS8 75ohm CATV RG11

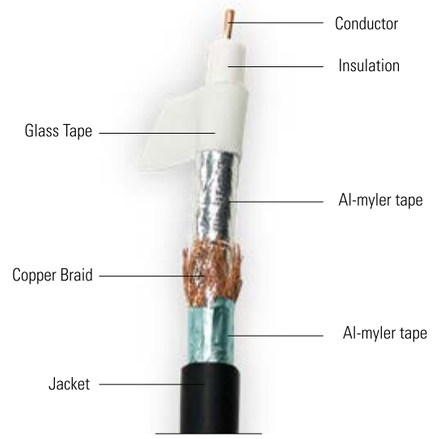
For video transmission

Identification

VS8 75ohm RG11

CPR CE Grade

B2ca s1a d0 a1



Dimension

Item	Size	VS8 RG11
Inner Conductor	Material	Bare Copper
	Diameter(mm)	1.70 ± 0.03
Insulation	Material	Foamed Polyethylene
	Thickness(mm)	Nom.2.56
	Diameter(mm)	6.80 ± 0.20
Binder	Material	Glass Tape
	Thickness(mm)	0.15
1st Outer Conductor	Material	Sealed AL-Mylar Tape
	Thickness(mm)	Nom. 0.05
2nd Outer Conductor	Material	Bare Copper Braid
	Diameter(mm)	Nom. 0.25
	Coverage(mm)	Nom. 55
3rd Outer Conductor	Material	Al-Mylar Tape
	Thickness(mm)	Nom. 0.05
Jacket	Material	LSZH FR Black Polyethylene
	Thickness(mm)	1.25
	Diameter(mm)	10.30 ± 0.20

Electric Properties

Item	Production	VS8 RG11
Conductor Resistance	Ω/km	Max. 7.60
AC Voltage Test	-	1,000V / 1min
Dielectric Strength	pF/m	Nom. 50
Characteristic Impedance	MΩ km	Min. 1,000
Velocity of Propagation	%	75 ± 3
Attenuation	dB/100m	Max.12.00 @ 200MHz

Product Certificate

K26 50ohm Radiant Cable 1/2"



Certificate of constancy of performance

according to Regulation (EU) No. 305/2011

TÜVRheinland

Certificate No.: 1008-CPR-MC 69266396 0001

Report No.: HU22SKSE 001

Applicant: Taihan Cable & Solution Co., Ltd. 4F, 317 Simin-daero , Taihan Smart Tower, Dongan-gu, Anyang-si, Gyeonggi-do, Republic of Korea

Manufacturer: Taihan Cable & Solution Co., Ltd. 4F, 317 Simin-daero , Taihan Smart Tower, Dongan-gu, Anyang-si, Gyeonggi-do, Republic of Korea

Manufacturing plant: Taihan Cable & Solution Co., Ltd. 4F, 317 Simin-daero , Taihan Smart Tower, Dongan-gu, Anyang-si, Gyeonggi-do, Republic of Korea

Product: Coaxial Cable

Identification: RCX 22D (7/8") Corrugated FR

Intended use: Cables for Communication Systems

FPC Report No.: HU22SKSE 001

System of assessment and verification: 1+

Tested according to: EN 50575:2014+A1:2016

This certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performance described in Annex ZA of the above standard(s) under above system are applied and the product fulfils all the prescribed requirements set out above.
This certificate was first issued on 2022-11-07 and it will remain valid until the test methods and/or factory production control requirements included in the standard, used to assess the performance of the declared characteristics, and the product, and the manufacturing conditions in the plant are unchanged. The manufacturing plant and factory production control system of the manufacturer is supervised regularly by the Certification Body.

Certification Body

Date of issue: Budapest, 2022-11-07

Ferenczne Schaidt

TÜV Rheinland InterCert Kft., Product Certification Body — H-1143 Budapest, Gizella út 51-57. — www.tuv.com
Notified Body No. 1008

Validity of certificate can be checked on www.CERTIPEDIA.com



Annex to certificate No. 1008-CPR-MC 69266396 0001

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Azonosító / Identification	Védjegy / Trade Mark	Tűzvédelmi Osztály / Reaction to Fire classification
RCX 22D (7/8") Corrugated FR	-	$B2_{ca}$-s1a,d0,a1

Certification Body

Date of issue: Budapest, 2022-11-07

Ferenczne Schaidt

TÜV Rheinland InterCert Kft. – Product Certification Body — H-1143 Budapest, Gizella út 51-57. — www.tuv.com

K26 50ohm Radiant Cable 7/8"



Certificate of constancy of performance

according to Regulation (EU) No. 305/2011

TÜVRheinland

Certificate No.: 1008-CPR-MC 69265019 0001

Report No.: HU20FOXW 001

Applicant: Taihan Electric Wire Co., Ltd. 317, Simindae-ro, Taihan Smart Tower, Dongan-gu, Anyang-si, SOUTH KOREA

Manufacturer: Taihan Electric Wire Co., Ltd. 317, Simindae-ro, Taihan Smart Tower, Dongan-gu, Anyang-si, SOUTH KOREA

Manufacturing plant: Taihan Electric Wire Co., Ltd. 317, Simindae-ro, Taihan Smart Tower, Dongan-gu, Anyang-si, SOUTH KOREA

Product: Leaky Coaxial cable

Identification: RCX (Radiating Coaxial cable) 22D (1 1/4"), FLAT Type, Flame Retardant
Intended use: Leaky coaxial cable is a type of coaxial cables that is installed in underground spaces that cannot be transmitted, such as tunnels, subways, and underground parking lots etc. to enable wireless communication. It is cables are also installed around the railway to enable communication between running trains and the central command center, and to ensure stable communication of trains in high-speed trains or tunnels. The cable consists of an internal external conductor, insulator and jacket, especially which are characterized by a slot on the surface of the external conductor to allow signal communication to be exelled through the hole.
FPC Report No.: HU20GSOQ 001

System of assessment and verification: 1+

Tested according to: EN 50575:2014+A1:2016

This certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performance described in Annex ZA of the above standard(s) under above system are applied and the product fulfils all the prescribed requirements set out above.
This certificate was first issued on 2020-11-27 and it will remain valid until the test methods and/or factory production control requirements included in the standard, used to assess the performance of the declared characteristics, and the product, and the manufacturing conditions in the plant are unchanged. The manufacturing plant and factory production control system of the manufacturer is supervised regularly by the Certification Body.

Certification Body

Date of issue: Budapest, 2020-11-27

Ferenczne Schaidt

TÜV Rheinland InterCert Kft., Product Certification Body — H-1143 Budapest, Gizella út 51-57. — www.tuv.com
Notified Body No. 1008

Validity of certificate can be checked on www.CERTIPEDIA.com



Annex to certificate No. 1008-CPR-MC 69266395 0001

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Azonosító / Identification	Védjegy / Trade Mark	Tűzvédelmi Osztály / Reaction to Fire classification
RCX 12D (1/2") Corrugated FR	-	$B2_{ca}$-s1a,d0,a1

Certification Body

Date of issue: Budapest, 2022-11-07

Ferenczne Schaidt

TÜV Rheinland InterCert Kft. – Product Certification Body — H-1143 Budapest, Gizella út 51-57. — www.tuv.com

K26 50 ohm Radiant Cable 1 ¼"



Certificate of constancy of performance

according to Regulation (EU) No. 305/2011

TÜVRheinland

Certificate No.: 1008-CPR-MC 69265019 0001

Report No.: HU20FOXW 001

Applicant: Taihan Electric Wire Co., Ltd. 317, Simindae-ro, Taihan Smart Tower, Dongan-gu, Anyang-si, SOUTH KOREA

Manufacturer: Taihan Electric Wire Co., Ltd. 317, Simindae-ro, Taihan Smart Tower, Dongan-gu, Anyang-si, SOUTH KOREA

Manufacturing plant: Taihan Electric Wire Co., Ltd. 317, Simindae-ro, Taihan Smart Tower, Dongan-gu, Anyang-si, SOUTH KOREA

Product: Leaky Coaxial cable

Identification: RCX (Radiating Coaxial cable) 33D (1 1/4"), FLAT Type, Flame Retardant
Intended use: Leaky coaxial cable is a type of coaxial cables that is installed in underground spaces that cannot be transmitted, such as tunnels, subways, and underground parking lots etc. to enable wireless communication. It is cables are also installed around the railway to enable communication between running trains and the central command center, and to ensure stable communication of trains in high-speed trains or tunnels. The cable consists of an internal external conductor, insulator and jacket, especially which are characterized by a slot on the surface of the external conductor to allow signal communication to be exelled through the hole.
FPC Report No.: HU20GSOQ 001

System of assessment and verification: 1+

Tested according to: EN 50575:2014+A1:2016

This certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performance described in Annex ZA of the above standard(s) under above system are applied and the product fulfils all the prescribed requirements set out above.
This certificate was first issued on 2020-11-27 and it will remain valid until the test methods and/or factory production control requirements included in the standard, used to assess the performance of the declared characteristics, and the product, and the manufacturing conditions in the plant are unchanged. The manufacturing plant and factory production control system of the manufacturer is supervised regularly by the Certification Body.

Certification Body

Date of issue: Budapest, 2020-11-27

Ferenczne Schaidt

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Notified Body No. 1008

Validity of certificate can be checked on www.CERTIPEDIA.com



Annex to certificate No. 1008-CPR-MC 69265019 0001

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Azonosító / Identification	Védjegy / Trade Mark	Tűzvédelmi Osztály / Reaction to Fire classification
RCX 33D (Radiating Coaxial cable) (1 1/4") FLAT type, Flame Retardant	-	$B2_{ca}$-s1a,d0,a1

Certification Body

Date of issue: Budapest, 2020-11-27

Ferenczne Schaidt

TÜV Rheinland InterCert Kft. – Product Certification Body — H-1143 Budapest, Gizella út 51-57. — www.tuv.com

VS8 75ohm RG11



Certificate of constancy of performance

according to Regulation (EU) No. 305/2011

TÜVRheinland

Certificate No.: 1008-CPR-MC 69262567 0001

Report No.: 20233625 002

Applicant: Taihan Electric Wire Co., Ltd. 317, Simindae-ro, Taihan Smart Tower, Dongan-gu, Anyang-si, 14057K KOREA

Manufacturer: Taihan Electric Wire Co., Ltd. 317, Simindae-ro, Taihan Smart Tower, Dongan-gu, Anyang-si, 14057K KOREA

Manufacturing plant: Taihan Electric Wire Co., Ltd. 317, Simindae-ro, Taihan Smart Tower, Dongan-gu, Anyang-si, 14057K KOREA

Product: Coaxial Cable

Identification: HFBT 7C (RG11)
Intended use: Stable signal transmission ensured. This product is used for Wide broadband with far signal transmission distance. often used as a main cable line in transmitting shearing camera data, Cable Television, CCTV in the building or general house.

FPC Report No.: 20213640 001

System of assessment and verification: 1+

Tested according to: EN 50575:2014+A1:2016

This certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performance described in Annex ZA of the above standard(s) under above system are applied and the product fulfils all the prescribed requirements set out above.
This certificate was first issued on 20.07.27 and it will remain valid until the test methods and/or factory production control requirements included in the standard, used to assess the performance of the declared characteristics, and the product, and the manufacturing conditions in the plant are unchanged. The manufacturing plant and factory production control system of the manufacturer is supervised regularly by the Certification Body.

Certification Body

Date of issue: Budapest, 2020.07.29

Ferenczne Schaidt

TÜV Rheinland InterCert Kft., Product Certification Body — H-1152 Budapest, Vöcsi út 48/A-B, Hungary — www.tuv.com
Notified Body No. 1008

Validity of certificate can be checked on www.CERTIPEDIA.com



Annex to certificate No. 1008-CPR-MC 69262567 0001

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Azonosító / Identification	Védjegy / Trade Mark	Tűzvédelmi Osztály / Reaction to Fire classification
HFBT 7C (RG11)	-	B_{ca}-s1a,d0,a1

Certification Body

Date of issue: Budapest, 2020-07-29

Ferenczne Schaidt

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Global Network

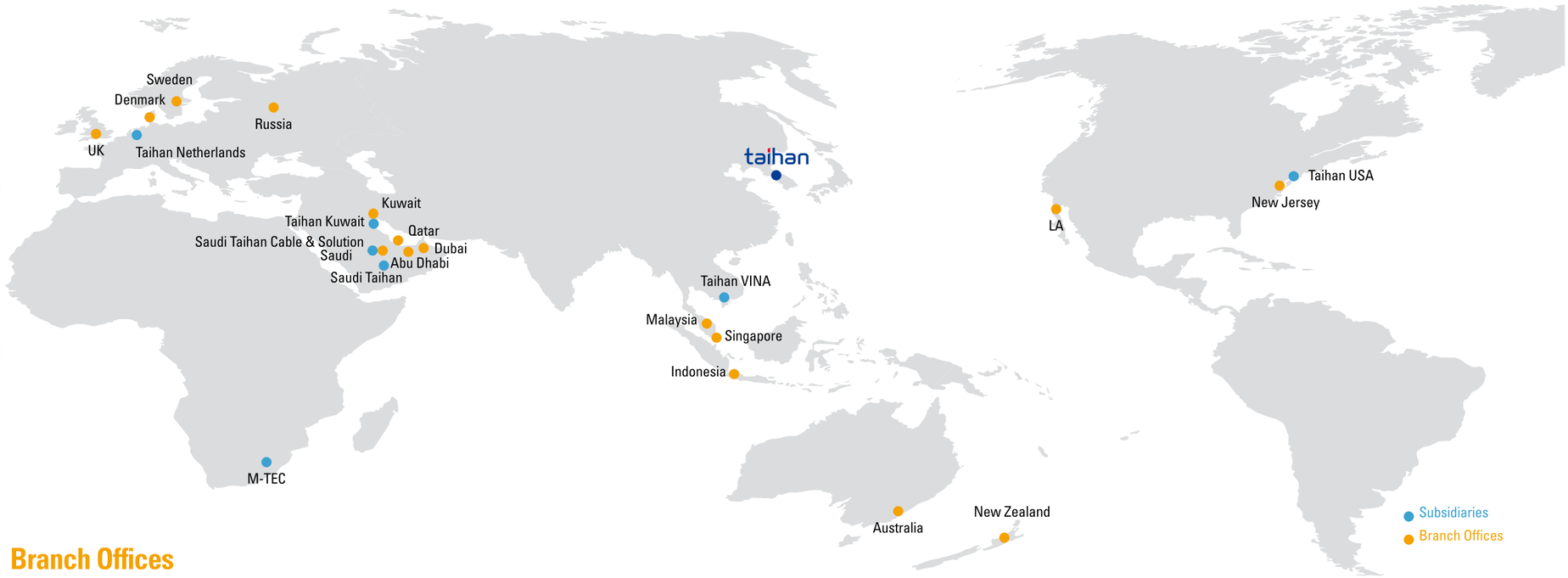
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