



BELGELER CERTIFICATES





İşbu belge,

Ören Kablo Anonim Şirketi

Ortaköy Sanayi Bölgesi Tibet Sk.No.7 34617, Silivri, İstanbul, Türkiye

Kalite Yönetim Sisteminin

ISO10002 Müşteri memnuniyetini şartlarını uygulayarak Güç, Koaksiyel, Sinyal, Telefon, bilgi/veri ve iletişim kabloları üretimi ve tasarımı

Uygulamasının

ISO 9001:2015

Hükümleri gereğince NQA tarafından denetlendiğini ve tescil edildiğini doğrular.

Bu tescil işlemi, kuruluşun kalite yönetim sistemini, sistemini, yukarıda anılan standart uyarınca NQA'nın denetimi altında sürdürmesine bağlıdır.

Uyumsuzluk halinde bu sertifikanın İngilizce dilindeki yorumu geçerli olacaktır

Sertifika No:	16261
ISO Onay Tarihi:	24 Haziran 2003
Yeniden Yayın:	07 Ocak 2024
Geçerlilik Tarihi:	05 Ocak 2027
EAC Kodu:	19

Managing Director





This is to certify that the Quality Management System of
Ören Kablo Anonim Şirketi

Ortaköy Sanayi Bölgesi Tibet Sk.No.7 34617, Silivri, İstanbul, Türkiye

applicable to

**Design and Manufacture of Power, Coaxial, Signal, Telephone, Data and
Communication Cables utilizing ISO10002 Customer Satisfaction**

has been assessed and registered by NQA against the provisions of

ISO 9001:2015

This registration is subject to the company maintaining a quality management system,
to the above standard, which will be monitored by NQA

Certificate No:	16261
ISO Approval Date:	24 June 2003
Reissued:	7 January 2024
Valid Until:	5 January 2027
EAC Code:	19

A handwritten signature in black ink, appearing to be 'H. N. Ak'.

Managing Director





İşbu belge,

Ören Kablo Anonim Şirketi

Ortaköy Sanayi Bölgesi Tibet Sk.No.7 34617, Silivri, İstanbul, Türkiye

Çevre Yönetim Sisteminin

Güç, Koaksiyel, Sinyal, Telefon, bilgi/veri ve iletişim kabloları üretimi ve tasarımı

Uygulamasının

ISO14001 : 2015

Hükümleri gereğince NQA tarafından denetlendiğini ve tescil edildiğini doğrular.

Bu tescil işlemi, kuruluşun çevre yönetim sistemini, yukarıda anılan standart uyarınca NQA'nın denetimi altında sürdürmesine bağlıdır.

Uyumsuzluk halinde bu sertifikanın İngilizce dilindeki yorumu geçerli olacaktır

Sertifika No:	170293
ISO Onay Tarihi:	06 Ocak 2021
Yeniden Yayın:	07 Ocak 2024
Geçerlilik Tarihi:	05 Ocak 2027
EAC Kodu:	19

Managing Director



Certificate of Registration



This is to certify that the Environmental Management System of
Ören Kablo Anonim Şirketi

Ortaköy Sanayi Bölgesi Tibet Sk.No.7 34617, Silivri, İstanbul, Türkiye

applicable to

Design and Manufacture of Power, Coaxial, Signal, Telephone, Data and Communication Cables

has been assessed and registered by NQA against the provisions of

ISO14001 : 2015

This registration is subject to the company maintaining an environmental management system, to the above standard, which will be monitored by NQA

Certificate No:	170293
ISO Approval Date:	6 January 2021
Reissued:	7 January 2024
Valid Until:	5 January 2027
EAC Code:	19

Managing Director





İşbu belge,

Ören Kablo Anonim Şirketi

Ortaköy Sanayi Bölgesi Tibet Sk.No.7 34617, Silivri, İstanbul, Türkiye

İş Sağlığı ve Güvenliği Yönetim Sisteminin

Güç, Koaksiyel, Sinyal, Telefon, bilgi/veri ve iletişim kabloları üretimi ve tasarımı

Uygulamasının

ISO 45001:2018

Hükümleri gereğince NQA tarafından denetlendiğini ve tescil edildiğini doğrular.

Bu tescil işlemi, kuruluşun iş sağlığı ve güvenliği yönetim sistemini, yukarıda anılan standart uyarınca NQA'nın denetimi altında sürdürmesine bağlıdır.

Uyumsuzluk halinde bu sertifikanın İngilizce dilindeki yorumu geçerli olacaktır

Sertifika No:	170294
ISO Onay Tarihi:	06 Ocak 2021
Yeniden Yayın:	07 Ocak 2024
Geçerlilik Tarihi:	05 Ocak 2027
EAC Kodu:	19

Managing Director



Certificate of Registration



This is to certify that the Health and Safety Management System of
Ören Kablo Anonim Şirketi

Ortaköy Sanayi Bölgesi Tibet Sk.No.7 34617, Silivri, İstanbul, Türkiye

applicable to

Design and Manufacture of Power, Coaxial, Signal, Telephone, Data and Communication Cables

has been assessed and registered by NQA against the provisions of

ISO 45001:2018

This registration is subject to the company maintaining an occupational health & safety management system, to the above standard, which will be monitored by NQA.

Certificate No:	170294
ISO Approval Date:	6 January 2021
Reissued:	7 January 2024
Valid Until:	5 January 2027
EAC Code:	19

Managing Director





İşbu belge,

Ören Kablo Anonim Şirketi

Ortaköy Sanayi Bölgesi Tibet Sk.No.7 34617, Silivri, İstanbul, Türkiye

Yönetim Sisteminin ve Proseslerinin

Güç, Koaksiyel, Sinyal, Telefon, bilgi/veri ve iletişim kabloları üretimi ve tasarımı

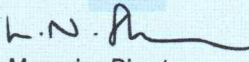
Uygulamasının

ISO 10002: 2018 Kalite Yönetimi-Müşteri Memnuniyeti-Kuruluşlarda Şikayetlerin Ele Alınması için Kılavuz

Hükümleri gereğince NQA tarafından denetlendiğini ve tescil edildiğini doğrular.

Bu tescil işlemi, kuruluşun yönetim sistemini, yukarıda anılan standart uyarınca NQA'nın denetimi altında sürdürmesine bağlıdır.

Uyuşmazlık halinde bu sertifikanın İngilizce dilindeki yorumu geçerli olacaktır


Managing Director

Sertifika No:	16261/1
ISO Onay Tarihi:	06 Ocak 2021
Yeniden Yayın:	07 Ocak 2024
Geçerlilik Tarihi:	05 Ocak 2027
EAC Kodu:	19



This is to certify that the Management Systems and Processes of:

Ören Kablo Anonim Şirketi

Ortaköy Sanayi Bölgesi Tibet Sk.No.7 34617, Silivri, İstanbul ,Türkiye

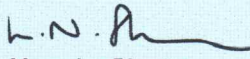
applicable to

Design and Manufacture of Power, Coaxial, Signal, Telephone, Data and Communication Cables

has been assessed and registered by NQA against the provisions of

ISO 10002:2018 Quality management — Customer satisfaction — Guidelines for complaints handling in Organizations

This registration is subject to the company maintaining a management system, to the above standard, which will be monitored by NQA


Managing Director

Certificate No:	16261/1
ISO Approval Date:	6 January 2021
Reissued:	7 January 2024
Valid Until:	5 January 2027
EAC Code:	19



TÜRK STANDARDLARI ENSTİTÜSÜ
TÜRK STANDARDLARINA UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS



BELGE NUMARASI REFERENCE NUMBER OF LICENCE	000210-TSE-02/04
BELGENİN İLK VERİLİŞ TARİHİ DATE OF FIRST ISSUE OF LICENCE	14.06.2017
BELGENİN SON GEÇERLİLİK TARİHİ LICENCE VALID UNTIL	21.09.2025
BELGE SAHİBİ KURULUŞUN ADI NAME OF THE LICENCE HOLDER	ÖREN KABLO ANONİM ŞİRKETİ
BELGE SAHİBİ KURULUŞUN ADRESİ ADDRESS OF THE LICENCE HOLDER	HALİL RIFAT PAŞA MAH. YÜZER HAVUZ SK. PERPA TİC MER A BLOK NO:1 /9023 ŞİŞLİ İSTANBUL/TÜRKİYE
ÜRETİM YERİ ADI NAME OF THE MANUFACTURING PLACE	ÖREN KABLO ANONİM ŞİRKETİ
ÜRETİM YERİ ADRESİ ADDRESS OF THE MANUFACTURING PLACE	ORTAKÖY SANAYİ BÖLGESİ PK 34617 SELİMPAŞA-SİLİVRİ İSTANBUL / TÜRKİYE
İPTAL EDİLEN BELGE NUMARASI (Varsa) INDICATION OF SUPERSEDED LICENCE (if any)	000210-TSE-02/03
TESCİLLİ TİCARİ MARKASI REGISTERED TRADE MARK	ÖREN KABLO
İLGİLİ TÜRK STANDARDI RELATED TURKISH STANDARD	TS IEC 61156-5 / 12.04.2021
BELGE KAPSAMI SCOPE OF LICENCE	

SAYISAL HABERLEŞME İÇİN ÇOK DAMARLI VE SİMETRİK ÇİFTLİ/DÖRTLÜ KABLOLAR

- SINIFI : HFFR DIŞ KILIF , PE(POLİOLEFİN) YALITKAN KILIF ,
TİPİ : CAT 6 U/UTP 250 MHZ 100Ω DIŞ EKRANI EKSPANLANMAMIŞ , KABLO ELAMANI EKSPANLANMAMIŞ , ÇİFTLİ
BÜKÜLMÜŞ KABLOLAR

-SINIFI : PVC DIŞ KILIF , PE(POLİOLEFİN) YALITKAN KILIF ,
TİPİ : CAT 6 U/UTP 250 MHZ 100Ω DIŞ EKRANI EKSPANLANMAMIŞ , KABLO ELAMANI EKSPANLANMAMIŞ , ÇİFTLİ
BÜKÜLMÜŞ KABLOLAR

- SINIFI : HFFR DIŞ KILIF , PE(POLİOLEFİN) YALITKAN KILIF ,
TİPİ : CAT 6A U/FTP 500 MHZ 100Ω DIŞ EKRANI EKSPANLANMAMIŞ , KABLO ELAMANI EKSPANLANMIŞ , ÇİFTLİ
BÜKÜLMÜŞ KABLOLAR (K.D 19.12.2018)

- SINIFI : HFFR DIŞ KILIF , PE(POLİOLEFİN) YALITKAN KILIF ,
TİPİ : CAT 7 S/FTP 600 MHZ 100Ω DIŞ EKRANI EKSPANLANMIŞ , KABLO ELAMANI EKSPANLANMIŞ , ÇİFTLİ BÜKÜLMÜŞ
KABLOLAR (K.D 19.12.2018)

e-imzalı/e-signed

02.09.2024

Belgelendirme Merkezi Başkanı Adına
AKDOĞAN BULUT

İSTANBUL BELGELENDİRME MÜDÜRÜ V.

*Bu belge, belgelendirilen ürünün, üretim yerinin Enstitümüzün belirlediği şartları karşıladığını da gösterir.

*Bu belge, hiç bir suretle tahrif edilemez, kısmen veya okunmasını zorlaştıracak şekilde çoğaltılamaz, kopya ve silinti yapılamaz.

*TSE İSTANBUL BELGELENDİRME MÜDÜRLÜĞÜ * Adres: Çayirova Tren İstasyonu Yanı ÇAYIROVA/GEBZE * Telefon: 2627231273 * Faks: 2627231606

*TSE BELGELENDİRME MERKEZ BAŞKANLIĞI; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta
bmb@tse.org.tr , web : www.tse.org.tr





TÜRK STANDARDLARI ENSTİTÜSÜ
TÜRK STANDARDLARINA UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS

Markanın Tanımı Description of the Mark
TSE veya/or  veya/or T S E

BELGE NUMARASI 0306069-TSE-01/03
REFERENCE NUMBER OF LICENCE

BELGENİN İLK VERİLİŞ TARİHİ 14.06.2017
DATE OF FIRST ISSUE OF LICENCE

BELGENİN SON GEÇERLİLİK TARİHİ 12.12.2025
LICENCE VALID UNTIL

BELGE SAHİBİ KURULUŞUN ADI ÖREN KABLO ANONİM ŞİRKETİ
NAME OF THE LICENCE HOLDER

BELGE SAHİBİ KURULUŞUN ADRESİ HALİL RIFAT PAŞA MAH. YÜZER HAVUZ SK. PERPA TİC MER A
ADDRESS OF THE LICENCE HOLDER BLOK NO:1 /9023 ŞİŞLİ İSTANBUL/TÜRKİYE

ÜRETİM YERİ ADI ÖREN KABLO ANONİM ŞİRKETİ
NAME OF THE MANUFACTURING PLACE

ÜRETİM YERİ ADRESİ ORTAKÖY SANAYİ BÖLGESİ PK 34617 SELİMPAŞA-SİLİVRİ
ADDRESS OF THE MANUFACTURING PLACE İSTANBUL / TÜRKİYE

İPTAL EDİLEN BELGE NUMARASI (Varsa) 000210-TSE-01/02
INDICATION OF SUPERSEDED LICENCE (if any)

TESCİLLİ TİCARİ MARKASI ÖREN KABLO
REGISTERED TRADE MARK

İLGİLİ TÜRK STANDARDI TS EN 50117-9-2 / 29.04.2019
RELATED TURKISH STANDARD

BELGE KAPSAMI
SCOPE OF LICENCE

KOAKSİYEL KABLOLAR - BÖLÜM 9-2: ANALOG VE SAYISAL SİNYAL İLETİMİ İÇİN KOAKSİYEL KABLOLARIN BÖLÜM ÖZELLİKLERİ - 5 MHZ - 3 000 MHZ'DE ÇALIŞAN SİSTEMLER İÇİN BİNA İÇİ BAĞLANTI (DROP) KABLOLARI

- RG 6 U/4 Cu/CuSn TRİSHİELD HFFR Class A+ 19,1dB/100m @ 800MHz 75±3 Ohm Euro Class Dca
- RG 6 U/6 Cu/Cu TRİSHİELD HFFR Class A 13,5dB/100m @ 800MHz 75±3 Ohm Euro Class Dca
- RG 11 U/4 Cu/CuSn TRİSHİELD HFFR Class A+ 13,5dB/100m @ 800MHz 75±3 Ohm Euro Class Class Dca
- RG 11 U/6 Cu/Cu TRİSHİELD HFFR Class A+ 13,5dB/100m @ 800MHz 75±3 Ohm Euro Class Dca

e-imzalı/e-signed

28.11.2024

Belgelendirme Merkezi Başkanı Adına
AKDOĞAN BULUT

İSTANBUL BELGELENDİRME MÜDÜRÜ V.

*Bu belge, belgelendirilen ürünün, üretim yerinin Enstitümüzün belirlediği şartları karşıladığını da gösterir.

*Bu belge, hiç bir suretle tahrif edilemez, kısmen veya okunmasını zorlaştıracak şekilde çoğaltılamaz, kazıntı ve silinti yapılamaz.

*TSE İSTANBUL BELGELENDİRME MÜDÜRLÜĞÜ * Adres: Çayirova Tren İstasyonu Yanı ÇAYIROVA/GEBZE * Telefon: 2627231273 * Faks: 2627231606

*TSE BELGELENDİRME MERKEZ BAŞKANLIĞI; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta: bmb@tse.org.tr , web : www.tse.org.tr





TÜRK STANDARDLARI ENSTİTÜSÜ
TÜRK STANDARDLARINA UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS



BELGE NUMARASI REFERENCE NUMBER OF LICENCE	000210-TSE-04/03
BELGENİN İLK VERİLİŞ TARİHİ DATE OF FIRST ISSUE OF LICENCE	24.04.2006
BELGENİN SON GEÇERLİLİK TARİHİ LICENCE VALID UNTIL	11.12.2025
BELGE SAHİBİ KURULUŞUN ADI NAME OF THE LICENCE HOLDER	ÖREN KABLO ANONİM ŞİRKETİ
BELGE SAHİBİ KURULUŞUN ADRESİ ADDRESS OF THE LICENCE HOLDER	HALİL RIFAT PAŞA MAH. YÜZER HAVUZ SK. PERPA TİC MER A BLOK NO:1 /9023 ŞİŞLİ İSTANBUL/TÜRKİYE
ÜRETİM YERİ ADI NAME OF THE MANUFACTURING PLACE	ÖREN KABLO ANONİM ŞİRKETİ
ÜRETİM YERİ ADRESİ ADDRESS OF THE MANUFACTURING PLACE	ORTAKÖY SANAYİ BÖLGESİ PK 34617 SELİMPAŞA-SİLİVRİ İSTANBUL / TÜRKİYE
İPTAL EDİLEN BELGE NUMARASI (Varsa) INDICATION OF SUPERSEDED LICENCE (if any)	000210-TSE-04/02
TESCİLLİ TİCARİ MARKASI REGISTERED TRADE MARK	ÖREN KABLO
İLGİLİ TÜRK STANDARDI RELATED TURKISH STANDARD	TS 13767 / 24.04.2017
BELGE KAPSAMI SCOPE OF LICENCE	

KABLOLAR - HABERLEŞME VE BİLGİ İLETİMİ İÇİN
•J-H(ST)H...Lg TİPİ 4 ÇİFT(DAHİL)E KADAR
•J-H(ST)H...Bd TİPİ 4 ÇİFT(DAHİL)E KADAR
•JE-H(ST)H...Bd FE 180 , PH 120,TİPİ 8 ÇİFT(DAHİL)E KADAR
•J-Y(ST)Y... Bd TİPİ 4 ÇİFT(DAHİL)E KADAR
•J-Y (ST) Y...Lg TİPİ, 4 ÇİFT(DAHİL)E KADAR (K.D.02.03.2010)
•J-YY ... Bd TİPİ 4 ÇİFT(DAHİL)E KADAR (K.D.02.01.2024)
•JE-H(St)H... Bd TİPİ 4 ÇİFT(DAHİL)E KADAR (K.D.09.12.2024)

e-imzalı/e-signed

11.12.2024

Belgelendirme Merkezi Başkanı Adına
AKDOĞAN BULUT

İSTANBUL BELGELENDİRME MÜDÜRÜ V.

*Bu belge, belgelendirilen ürünün, üretim yerinin Enstitümüzün belirlediği şartları karşıladığını da gösterir.

*Bu belge, hiç bir suretle tahrif edilemez, kısmen veya okunmasını zorlaştıracak şekilde çoğaltılamaz, kızıntı ve silinti yapılamaz.

*TSE İSTANBUL BELGELENDİRME MÜDÜRLÜĞÜ * Adres: Çayirova Tren İstasyonu Yanı ÇAYIROVA/GEZİRE * Telefon: 2627231273 * Faks: 2627231606

*TSE BELGELENDİRME MERKEZ BAŞKANLIĞI; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta :bmb@tse.org.tr , web : www.tse.org.tr





TÜRK STANDARDLARI ENSTİTÜSÜ
TÜRK STANDARDLARINA UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS



BELGE NUMARASI 000210-TSE-05/01
REFERENCE NUMBER OF LICENCE

BELGENİN İLK VERİLİŞ TARİHİ 08.05.2014
DATE OF FIRST ISSUE OF LICENCE

BELGENİN SON GEÇERLİLİK TARİHİ 05.01.2026
LICENCE VALID UNTIL

BELGE SAHİBİ KURULUŞUN ADI ÖREN KABLO ANONİM ŞİRKETİ
NAME OF THE LICENCE HOLDER

BELGE SAHİBİ KURULUŞUN ADRESİ HALİL RIFAT PAŞA MAH. YÜZER HAVUZ SK. PERPA TİC MER A
ADRESS OF THE LICENCE HOLDER BLOK NO:1 /9023 ŞİŞLİ İSTANBUL/TÜRKİYE

ÜRETİM YERİ ADI ÖREN KABLO ANONİM ŞİRKETİ
NAME OF THE MANUFACTURING PLACE

ÜRETİM YERİ ADRESİ ORTAKÖY SANAYİ BÖLGESİ PK 34617 SELİMPAŞA-SİLİVRİ
ADRESS OF THE MANUFACTURING PLACE İSTANBUL / TÜRKİYE

İPTAL EDİLEN BELGE NUMARASI (Varsa) 000210-TSEK-02/01
INDICATION OF SUPERSEDED LICENCE (if any)

TESCİLLİ TİCARİ MARKASI ŞEKİL+ÖREN KABLO
REGISTERED TRADE MARK

İLGİLİ TÜRK STANDARDI TS 13734 / 06.02.2017
RELATED TURKISH STANDARD

BELGE KAPSAMI
SCOPE OF LICENCE

KABLOLAR-HALOJENSİZ VE YANGINA DAYANIKLI SİNYAL VE KONTROL KABLOLARI
•LIH(St) H FE 180 PH 120 TİPİ 10 DAMARA KADAR (10 DAMAR DAHİL)
•LIH(St) CH FE 180 PH 120 TİPİ 10 DAMARA KADAR (10 DAMAR DAHİL)

e-imzalı/e-signed

13.12.2024

Belgelendirme Merkezi Başkanı Adına
AKDOĞAN BULUT

İSTANBUL BELGELENDİRME MÜDÜRÜ V.

*Bu belge, belgelendirilen ürünün, üretim yerinin Enstitümüzün belirlediği şartları karşıladığını da gösterir.

*Bu belge, hiç bir suretle tahrif edilemez, kısmen veya okunmasını zorlaştıracak şekilde çoğaltılamaz, kazıntı ve silinti yapılamaz.

*TSE İSTANBUL BELGELENDİRME MÜDÜRLÜĞÜ * Adres: Çayirova Tren İstasyonu Yanı ÇAYIROVA/GEBZE * Telefon: 2627231273 * Faks: 2627231606

*TSE BELGELENDİRME MERKEZ BAŞKANLIĞI; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta :bmb@tse.org.tr , web : www.tse.org.tr





TÜRK STANDARDLARI ENSTİTÜSÜ
TÜRK STANDARDLARINA UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS



BELGE NUMARASI REFERENCE NUMBER OF LICENCE	000210-TSE-06/03
BELGENİN İLK VERİLİŞ TARİHİ DATE OF FIRST ISSUE OF LICENCE	20.11.2018
BELGENİN SON GEÇERLİLİK TARİHİ LICENCE VALID UNTIL	20.09.2025
BELGE SAHİBİ KURULUŞUN ADI NAME OF THE LICENCE HOLDER	ÖREN KABLO ANONİM ŞİRKETİ
BELGE SAHİBİ KURULUŞUN ADRESİ ADDRESS OF THE LICENCE HOLDER	HALİL RIFAT PAŞA MAH. YÜZER HAVUZ SK. PERPA TİC MER A BLOK NO:1 /9023 ŞİŞLİ İSTANBUL/TÜRKİYE
ÜRETİM YERİ ADI NAME OF THE MANUFACTURING PLACE	ÖREN KABLO ANONİM ŞİRKETİ
ÜRETİM YERİ ADRESİ ADDRESS OF THE MANUFACTURING PLACE	ORTAKÖY SANAYİ BÖLGESİ PK 34617 SELİMPAŞA-SİLİVRİ İSTANBUL / TÜRKİYE
İPTAL EDİLEN BELGE NUMARASI (Varsa) INDICATION OF SUPERSEDED LICENCE (if any)	000210-TSE-06/02
TESCİLLİ TİCARİ MARKASI REGISTERED TRADE MARK	ÖREN
İLGİLİ TÜRK STANDARDI RELATED TURKISH STANDARD	TS 13755 / 10.04.2017
BELGE KAPSAMI SCOPE OF LICENCE	

- KABLolar - SİNYAL VE KONTROL KABLoları
- LIYY TİPİ 12 DAMARA KADAR (12 DAMAR DAHİL)
- LIYCY TİPİ 12 DAMARA KADAR (12 DAMAR DAHİL) (K.D. 18.09.2019)
- LIY(ST)Y TİPİ 12 DAMARA KADAR (12 DAMAR DAHİL) (K.D. 18.09.2019)
- LIY(ST)CY TİPİ 12 DAMARA KADAR (12 DAMAR DAHİL) (K.D. 18.09.2019)
- LIHH TİPİ 12 DAMARA KADAR (12 DAMAR DAHİL) (K.D. 18.09.2019)
- LIHCH TİPİ 12 DAMARA KADAR (12 DAMAR DAHİL) (K.D. 18.09.2019)
- LIH(ST)H TİPİ 12 DAMARA KADAR (12 DAMAR DAHİL) (K.D. 18.09.2019)
- LIH(ST)CH TİPİ 12 DAMARA KADAR (12 DAMAR DAHİL) (K.D. 18.09.2019)

e-imzalı/e-signed

02.09.2024

Belgelendirme Merkezi Başkanı Adına
AKDOĞAN BULUT

İSTANBUL BELGELENDİRME MÜDÜRÜ V.

*Bu belge, belgelendirilen ürünün, üretim yerinin Enstitümüzün belirlediği şartları karşıladığını da gösterir.

*Bu belge, hiç bir suretle tahrif edilemez, kısmen veya okunmasını zorlaştıracak şekilde çoğaltılamaz, kızıntı ve silinti yapılamaz.

*TSE İSTANBUL BELGELENDİRME MÜDÜRLÜĞÜ * Adres: Çayırova Tren İstasyonu Yanı ÇAYIROVA/GEBZE * Telefon: 2627231273 * Faks: 2627231606

*TSE BELGELENDİRME MERKEZ BAŞKANLIĞI; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta: bmb@tse.org.tr , web : www.tse.org.tr





TÜRK STANDARDLARI ENSTİTÜSÜ
TÜRK STANDARDLARINA UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS



BELGE NUMARASI REFERENCE NUMBER OF LICENCE	000210-TSE-03/01
BELGENİN İLK VERİLİŞ TARİHİ DATE OF FIRST ISSUE OF LICENCE	26.06.2007
BELGENİN SON GEÇERLİLİK TARİHİ LICENCE VALID UNTIL	05.01.2026
BELGE SAHİBİ KURULUŞUN ADI NAME OF THE LICENCE HOLDER	ÖREN KABLO ANONİM ŞİRKETİ
BELGE SAHİBİ KURULUŞUN ADRESİ ADDRESS OF THE LICENCE HOLDER	HALİL RIFAT PAŞA MAH. YÜZER HAVUZ SK. PERPA TİC MER A BLOK NO:1 /9023 ŞİŞLİ İSTANBUL/TÜRKİYE
ÜRETİM YERİ ADI NAME OF THE MANUFACTURING PLACE	ÖREN KABLO ANONİM ŞİRKETİ
ÜRETİM YERİ ADRESİ ADDRESS OF THE MANUFACTURING PLACE	ORTAKÖY SANAYİ BÖLGESİ PK 34617 SELİMPAŞA-SİLİVRİ İSTANBUL / TÜRKİYE
İPTAL EDİLEN BELGE NUMARASI (Varsa) INDICATION OF SUPERSEDED LICENCE (if any)	000210-TSEK-03/01
TESCİLLİ TİCARİ MARKASI REGISTERED TRADE MARK	ÖREN KABLO
İLGİLİ TÜRK STANDARDI RELATED TURKISH STANDARD	TS 13778 / 22.05.2017
BELGE KAPSAMI SCOPE OF LICENCE	

KABLOLAR - KAMERA KABLOLARI
•TİP: CCTV-PVC 1xRG 59/75 ohm 12 DAMARA KADAR (12 DAMAR DAHİL) PVC YALITKAN VE KILIFLI,
•TİP:CCTV-HFFR 1xRG 59/75 ohm 12 DAMARA KADAR (12 DAMAR DAHİL)
HALOJENSİZ YALITKAN VE KILIFLI,
•TİP:CCTV X(C60,C80,C100)+Xx0,50-1,50 mm2 75 Ohm, 3 DAMARA KADAR (3 DAMAR DAHİL), PE(UTP,STP), PVC YALITKAN VE KILIFLI
•TİP:CCTV X(VPC60,VPC80)+ Xx 0,50/0,75 mm2+UTP Xx 0,22mm2 75 Ohm, 3 DAMARA KADAR (3 DAMAR DAHİL), PE(UTP,STP), PVC YALITKAN VE KILIFLI
•TİP:CCTV X(VPC80,VPC100)+ Xx 1,00/1,50 mm2+STP Xx 0,34 mm2 75 Ohm, 3 DAMARA KADAR (3 DAMAR DAHİL), PE(UTP,STP), PVC YALITKAN VE KILIFLI
•TİP:CCTV X(PTZ60,PTZ80)+ Xx 0,50/0,75 mm2+UTP Xx 0,22mm2 75 Ohm, 3 DAMARA KADAR (3 DAMAR DAHİL), PE(UTP,STP), PVC YALITKAN VE KILIFLI
•TİP:CCTV X(PTZ80,PTZ100)+ Xx 1,00/1,50 mm2+STP Xx 0,34 mm2 75 Ohm, 3 DAMARA KADAR (3 DAMAR DAHİL), PE(UTP,STP), PVC YALITKAN VE KILIFLI

e-imzalı/e-signed

13.12.2024

Belgelendirme Merkezi Başkanı Adına
AKDOĞAN BULUT

İSTANBUL BELGELENDİRME MÜDÜRÜ V.

*Bu belge, belgelendirilen ürünün, üretim yerinin Enstitümüzün belirlediği şartları karşıladığını da gösterir.

*Bu belge, hiç bir suretle tahrif edilemez, kısmen veya okunmasını zorlaştıracak şekilde çoğaltılamaz, kazıntı ve silinti yapılamaz.

*TSE İSTANBUL BELGELENDİRME MÜDÜRLÜĞÜ * Adres: Çayirova Tren İstasyonu Yanı ÇAYIROVA/GEBZE * Telefon: 2627231273 * Faks: 2627231606

*TSE BELGELENDİRME MERKEZ BAŞKANLIĞI; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta :bmb@tse.org.tr , web : www.tse.org.tr





TÜRK STANDARDLARI ENSTİTÜSÜ
KRİTERE UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMANCE TO CRITERIA

Markanın Tanımı Description of the Mark

TSEK veya / or **ТСТ**

BELGE NUMARASI

REFERENCE NUMBER OF LICENCE

000210-TSEK-07/01

BELGENİN İLK VERİLİŞ TARİHİ

DATE OF FIRST ISSUE OF LICENCE

02.07.2019

BELGENİN SON GEÇERLİLİK TARİHİ

LICENCE VALID UNTIL

02.07.2025

BELGE SAHİBİ KURULUŞUN ADI

NAME OF THE LICENCE HOLDER

ÖREN KABLO ANONİM ŞİRKETİ

BELGE SAHİBİ KURULUŞUN ADRESİ

ADDRESS OF THE LICENCE HOLDER

HALİL RIFAT PAŞA MAH. YÜZER HAVUZ SK. PERPA TİC MER A
BLOK NO:1 /9023 ŞİŞLİ İSTANBUL

ÜRETİM YERİ ADI

NAME OF THE MANUFACTURING PLACE

ÖREN KABLO ANONİM ŞİRKETİ

ÜRETİM YERİ ADRESİ

ADDRESS OF THE MANUFACTURING PLACE

ORTAKÖY SANAYİ BÖLGESİ PK 34617 SELİMPAŞA-SİLİVRİ
İSTANBUL

TESCİLLİ TİCARİ MARKASI

REGISTERED TRADE MARK

ÖREN

İLGİLİ BELGELENDİRME KRİTERİ

RELATED TURKISH STANDARD

TSE K 373 / 13.01.2017

BELGE KAPSAMI

SCOPE OF LICENCE

KABLOLAR - BEYAN GERİLİMİ EN ÇOK 300/500 V (U0/U)
OLAN - Ö Z E L PVC YALITKANLI VE PVC KILIFLI, YAĞA
DAYANIKSIZ ÇOK DAMARLI KONTROL KABLOLARI
TİPİ
- YSLY-JZ

e-imzalı/e-signed

24/05/2024

Belgelendirme Merkezi Başkanı Adına
AKDOĞAN BULUT

İSTANBUL BELGELENDİRME MÜDÜRÜ V.

*Bu belge, belgelendirilen ürünün, üretim yerinin Enstitümüzün belirlediği şartları karşıladığını da gösterir.

*Bu belge, hiç bir suretle tahrif edilemez, kısmen veya okunmasını zorlaştıracak şekilde çoğaltılamaz, kopya ve silinti yapılamaz.

*TSE İSTANBUL BELGELENDİRME MÜDÜRLÜĞÜ * Adres: Çayirova Tren İstasyonu Yanı ÇAYIROVA/GEBZE * Telefon: 2627231273* Faks: 2627231606

*TSE BELGELENDİRME MERKEZ BAŞKANLIĞI; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta
bmb@tse.org.tr , web : www.tse.org.tr

<https://evrakkontrol.tse.org.tr/BelgeDogrulama.aspx?p=ozycmhj> adresinden belgenin doğruluğunu ve geçerliliğini sorgulayınız.



Zertifikat Certificate



Zertifikat Nr. Certificate No.
R 60100617

Blatt Page
0001

Ihr Zeichen Client Reference

Unser Zeichen Our Reference
0001-- 27122089 001

Ausstellungsdatum
19.03.2015

Date of Issue
(day/mo/yr)

Genehmigungsinhaber License Holder

ÖREN KABLO ELEKTRİK VE ELEKTRONİK
SİSTEMLERİ SANAYİ TİCARET LTD.ŞTİ.
ORTAKÖY SAN.BÖLGESİ P.K.TR-34617
SELİMPAŞA-SİLİVRİ-İSTANBUL
Türkiye

Fertigungsstätte Manufacturing Plant

ÖREN KABLO ELEKTRİK VE ELEKTRONİK
SİSTEMLERİ SANAYİ TİCARET LTD.ŞTİ.
ORTAKÖY SAN.BÖLGESİ P.K.TR-34617
SELİMPAŞA-SİLİVRİ-İSTANBUL
Türkiye

Prüfzeichen Test Mark



Geprüft nach Tested acc. to

DIN VDE 0815:1985+A1
DIN VDE 0812/11.88

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Cable

Code Designation : LIHCH FE 180 PH 180
Trade Mark : ÖREN KABLO
Number of Cores : 2-4
Nominal cross-sectional areas: 0,50mm², 0,75mm², 1,00mm²
1,5mm², 2,5mm²
Conductor : Flexible plain copper conductor (Class5)
according to IEC 60228
Resistance to fire (acc.to EN 50200): PH 180
Circuit integrity (acc to IEC 60331-23): FE 180

5

Refer to test report for constructional parameters
and test results.

Fire Performance-Category C acc.to EN 60332-3-24
Flame Propagation acc.to EN 60332-1-2
Smoke Density acc.to EN 61034-2
Halogen Free characteristics acc.to EN 50267-2-2 and
EN 50267-2-1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg
Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety



Sahure Oralalp

Zertifikat

Certificate



Zertifikat Nr. Certificate No.
R 60095857

Blatt Page
0001

Ihr Zeichen Client Reference

Unser Zeichen Our Reference

Ausstellungsdatum

Date of Issue

0001-- 27116467 001

13.08.2014

(day/mo/yr)

Genehmigungsinhaber License Holder

ÖREN KABLO ELEKTRİK VE ELEKTRONİK
SİSTEMLERİ SANAYİ TİCARET LTD.ŞTİ.
ORTAKÖY SAN.BÖLGESİ P.K.TR-34617
SELİMPAŞA-SİLİVRİ-İSTANBUL
Türkiye

Fertigungsstätte Manufacturing Plant

ÖREN KABLO ELEKTRİK VE ELEKTRONİK
SİSTEMLERİ SANAYİ TİCARET LTD.ŞTİ.
ORTAKÖY SAN.BÖLGESİ P.K.TR-34617
SELİMPAŞA-SİLİVRİ-İSTANBUL
Türkiye

Prüfzeichen Test Mark



Geprüft nach Tested acc. to

DIN VDE 0815:1985+A1

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Cable (Halogen free fire resistant wiring cable)

Code Designation : JE-H(St)H FE 180 PH 180
Number of pairs : 1-4
Crossection : 0,80 mm - 1,0mm - 1,0mm² - 1,5mm²
Drain wire : 0,80 mm - 1,0mm - 1,0mm² - 1,5mm²
Colour of sheath : Orange

5

Resistance to fire (acc.to EN 50200) : PH 180
Circuit integrity (acc. to IEC 60331-23): FE 180
Trademark : ÖREN KABLO

Remarks:

Tested acc. to EN 60332-3-24 : Category C to determine Fire Performance

Tested acc. to EN 60332-1-2 to determine flame propagation

Tested acc. to EN 61034-2 to determine Smoke Density

Tested acc. to EN 50267-2-2 and EN 50267-2-1 to determine Halogen Free characteristics

Refer to test report for test results.

5

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht. This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg
Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety

Zertifizierungsstelle



Sahure Oralalp

Zertifikat

Certificate



Zertifikat Nr. Certificate No.
R 60095857

Blatt Page
0002

Ihr Zeichen Client Reference

Unser Zeichen Our Reference

Ausstellungsdatum

Date of Issue

0001-- 27116467 002

20.02.2015

(day/mo/yr)

Genehmigungsinhaber License Holder

ÖREN KABLO ELEKTRİK VE ELEKTRONİK
SİSTEMLERİ SANAYİ TİCARET LTD.ŞTİ.
ORTAKÖY SAN.BÖLGESİ P.K.TR-34617
SELİMPAŞA-SİLİVRİ-İSTANBUL
Türkiye

Fertigungsstätte Manufacturing Plant

ÖREN KABLO ELEKTRİK VE ELEKTRONİK
SİSTEMLERİ SANAYİ TİCARET LTD.ŞTİ.
ORTAKÖY SAN.BÖLGESİ P.K.TR-34617
SELİMPAŞA-SİLİVRİ-İSTANBUL
Türkiye

Prüfzeichen Test Mark



Geprüft nach Tested acc. to

DIN VDE 0815:1985+A1

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Cable (Halogen free fire resistant wiring cable)

Code Designation : JE-H(St)H...Bd FE 180 PH 180
Additional crossection for following
Number of pairs : 1
Crossection : 2,5 mm²
Drain wire : 2,5 mm²
Trademark : ÖREN KABLO

1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg
Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety

Zertifizierungsstelle



Sahure Oralalp

GUTACHTEN MIT FERTIGUNGSÜBERWACHUNG CERTIFICATE OF CONFORMITY WITH FACTORY SURVEILLANCE

ÖREN KABLO A.S
Ortaköy Sanayi Bölgesi P.K.
34617 Selimpasa Silivri
Istanbul
Turkey

ist berechtigt, für ihr Produkt /
is authorized to use for their product

**Halogenfreies Installationskabel mit verbessertem Verhalten im
Brandfall für Fernmelde- und Informationsverarbeitungsanlagen**
***Halogen-free wiring cable with improved characteristics in the
case of fire for telecommunication and data processing systems***

die hier abgebildeten markenrechtlich geschützten Zeichen
für die ab Blatt 2 aufgeführten Typen zu benutzen /
the legally protected Marks as shown below for the types referred to on page 2 ff.

◁ VDE-REG 8636 ▷

Geprüft und zertifiziert nach /
Tested and certified according to

DIN VDE 0815:1985-09
DIN VDE 0815/A1:1988-05
(in Anlehnung an/with reference to)

Befristet zum / *valid until*: 2027-12-31

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Zertifizierungsstelle / *Certification*

M. Ackermann

Aktenzeichen: 5015666-5350-0021 / 318052

File ref.:

Ausweis-Nr. 40036846

Blatt 1

Certificate No.

Page

Weitere Bedingungen siehe Rückseite und Folgeblätter /
further conditions see overleaf and following pages

Offenbach, 2013-02-14

(letzte Änderung/updated 2024-10-10)

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Ausweis-Nr. / Blatt /
Certificate No. Page
40036846 2

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder

ÖREN KABLO A.S, Ortaköy Sanayi Bölgesi P.K., 34617 SELIMPASA SILIVRI, Istanbul, TURKEY

Aktenzeichen / File ref.

5015666-5350-0021 / 318052 / TL6 / BJO

letzte Änderung / updated

2024-10-10

Datum / Date

2013-02-14

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40036846.

This supplement is only valid in conjunction with page 1 of the Certificate No. 40036846.

Halogenfreies Installationskabel mit verbessertem Verhalten im Brandfall für Fernmelde- und Informationsverarbeitungsanlagen

***Halogen-free wiring cable with improved characteristics in the
case of fire for telecommunication and data processing systems***

Typ(en) / Type(s)

JE-H(St)H 1...4 x 2 x 0,8 mm Bd FE180/PH180 E90

JE-H(St)H 1...4 x 2 x 0,75 mm² Bd FE180/PH180 E90

JE-H(St)H 1...4 x 2 x 1,0 mm² Bd FE180/PH180 E90

JE-H(St)H 1...4 x 2 x 1,5 mm² Bd FFE180/PH180 E90

JE-H(St)H 1...4 x 2 x 2,5 mm² Bd FE180/PH180 E90

Betriebsspannung

225 V (Spitzenwert / peak value)

Working voltage

Aufbau

Construction

Fortsetzung siehe Blatt 3 /
continued on page 3

VDE Prüf- und Zertifizierungsinstitut GmbH * Testing and Certification Institute



Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder

ÖREN KABLO A.S., Ortaköy Sanayi Bölgesi P.K., 34617 SELIMPASA SILIVRI, Istanbul, TURKEY

Aktenzeichen / File ref.

5015666-5350-0021 / 318052 / TL6 / BJO

letzte Änderung / updated

2024-10-10

Datum / Date

2013-02-14

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40036846.

This supplement is only valid in conjunction with page 1 of the Certificate No. 40036846.

Halogenfrei

Halogen free

nach DIN EN 60754-2

according to DIN EN 60754-2

Brennverhalten

Fire performance

nach DIN EN 60332-3-24

according to DIN EN 60332-3-24

Isolationserhalt

180 Minuten U = 300 V, AC;

(Phase/Phase); nach

- IEC 60331-23

- DIN EN 50200 (PH 180)

Biegeradius 10 x Kabeldurchmesser

Resistance to fire

180 minutes U = 300 V, AC;

(phase/phase); according to

- IEC 60331-23

- DIN EN 50200 (PH 180)

bending radius 10 x cable outer diameter

Funktionserhalt

Efectis Test Report Nr. RFTR23176 vom 2024-02-05

nach DIN 4102-12; E90

Circuit integrity

Efectis Test Report No. RFTR23176, dated 2024-02-05

acc. to DIN 4102-12; E90

Rauchdichte

Smoke density

nach DIN EN 61034-2

according to DIN EN 61034-2

Elektrische Eigenschaften

wie JE-H(St)H...Bd FE nach DIN VDE 0815 Tabelle 10

Leiterwiderstand gemäß Anlage 100 vom 2024-10-10

Electrical characteristics

as JE-H(St)H...Bd FE according to DIN VDE 0815 table 10

Conductor resistance refer to Appendix 100 dated 2024-10-10

Verwendungsbereich

Guide to use

wie JE-H(St)H ... Bd FE nach DIN VDE 0815, Tab. 4

as JE-H(St)H ... Bd FE acc. to DIN VDE 0815, table 4

Firmenzeichen

Trademark

ÖREN KABLO

Dieser Zeichengenehmigungsausweis bildet eine Grundlage für die EU-Konformitätserklärung und CE-Kennzeichnung durch den Hersteller oder dessen Bevollmächtigten.

This Marks Approval is a basis for the EU Declaration of Conformity and the CE Marking by the manufacturer or his agent.

VDE Prüf- und Zertifizierungsinstitut Gutachten mit Fertigungsüberwachung

Ausweis-Nr. /
Certificate No.
40036846

Beiblatt /
Supplement

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*

ÖREN KABLO A.S, Ortaköy Sanayi Bölgesi P.K., 34617 SELIMPASA SILIVRI, Istanbul, TURKEY

Aktenzeichen / *File ref.*

5015666-5350-0021 / 318052 / TL6 / BJO

letzte Änderung / *updated*

2024-10-10

Datum / *Date*

2013-02-14

Dieses Beiblatt ist Bestandteil des Zeichengenehmigungsausweises Nr. 40036846.

This supplement is part of the Certificate No. 40036846.

**Halogenfreies Installationskabel mit verbessertem Verhalten im
Brandfall für Fernmelde- und Informationsverarbeitungsanlagen**

***Halogen-free wiring cable with improved characteristics in the
case of fire for telecommunication and data processing systems***

Fertigungsstätte(n)

Place(s) of manufacture

Referenz/*Reference*

30021732

ÖREN KABLO A.S

Ortaköy Sanayi Bölgesi P.K.

34617 SELIMPASA SILIVRI

Istanbul

TURKEY

VDE Prüf- und Zertifizierungsinstitut Gutachten mit Fertigungsüberwachung

Ausweis-Nr. / Infoblatt /
Certificate No. Info sheet
40036846

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder

ÖREN KABLO A.S, Ortaköy Sanayi Bölgesi P.K., 34617 SELIMPASA SILIVRI, Istanbul, TURKEY

Aktenzeichen / File ref.

5015666-5350-0021 / 318052 / TL6 / BJO

letzte Änderung / updated

2024-10-10

Datum / Date

2013-02-14

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This supplement is only valid in conjunction with page 1 of the Certificate No. 40036846.

Genehmigung zum Benutzen des auf Seite 1 abgebildeten markenrechtlich geschützten Zeichens des VDE:

Grundlage für die Benutzung sind die Allgemeinen Geschäftsbedingungen (AGB) der VDE Prüf- und Zertifizierungsinstitut GmbH (www.vde.com\AGB-Institut). Das Recht zur Benutzung erstreckt sich nur auf die bezeichnete Firma mit den genannten Fertigungsstätten und die oben aufgeführten Produkte mit den zugeordneten Bezeichnungen. Die Fertigungsstätte muss so eingerichtet sein, dass eine gleichmäßige Herstellung der geprüften und zertifizierten Ausführung gewährleistet ist.

Die Genehmigung ist so lange gültig wie die VDE Bestimmungen gelten, die der Zertifizierung zugrunde gelegen haben, sofern sie nicht auf Grund anderer Bedingungen aus der VDE Prüf- und Zertifizierungsordnung (PM102) zurückgezogen werden muss.

Der Gültigkeitszeitraum einer VDE GS-Zeichengenehmigung kann auf Antrag verlängert werden. Bei gesetzlichen und / oder normativen Änderungen kann die VDE GS-Zeichengenehmigung ihre Gültigkeit zu einem früheren als dem angegebenen Datum verlieren.

Produkte, die das Biozid Dimethylfumarat (DMF) enthalten, dürfen gemäß der Kommissionsentscheidung 2009/251/EG nicht mehr in den Verkehr gebracht oder auf dem Markt bereitgestellt werden.

Der VDE Zeichengenehmigungsausweis wird ausschließlich auf der ersten Seite unterzeichnet.

Approval to use the legally protected Mark of the VDE as shown on the first page:

Basis for the use are the general terms and conditions of the VDE Testing and Certification Institute (www.vde.com\terms-institute). The right to use the mark is granted only to the mentioned company with the named places of manufacture and the listed products with the related type references. The place of manufacture shall be equipped in a way that a constant manufacturing of the certified construction is assured.

The approval is valid as long as the VDE specifications are in force, on which the certification is based on, unless it is withdrawn according to the VDE Testing and Certification Procedure (PM102E).

The validity period of a VDE GS-Mark Approval may be prolonged on request. In case of changes in legal and / or normative requirements, the validity period of a VDE GS-Mark Approval may be shortened.

Products containing the biocide dimethylfumarate (DMF) may not be marketed or made available on the EC market according to the Commission Decision 2009/251/EC.

The approval is solely signed on the first page.

GUTACHTEN MIT FERTIGUNGSÜBERWACHUNG CERTIFICATE OF CONFORMITY WITH FACTORY SURVEILLANCE

ÖREN KABLO A.S
Ortaköy Sanayi Bölgesi P.K.
34617 Selimpasa Silivri
Istanbul
Turkey

ist berechtigt, für ihr Produkt /
is authorized to use for their product

**Halogenfreie Schttlitzen mit verbessertem Verhalten im Brandfall für
Fernmelde- und Informationsverarbeitungsanlagen**
***Halogen-free stranded equipment wires with improved characteristics in
the case of fire for telecommunication and data processing systems***

die hier abgebildeten markenrechtlich geschützten Zeichen
für die ab Blatt 2 aufgeführten Typen zu benutzen /
the legally protected Marks as shown below for the types referred to on page 2 ff.

◁ VDE-REG 8635 ▷

Geprüft und zertifiziert nach /
Tested and certified according to

DIN VDE 0812:1988-11
DIN VDE 0812 Berichtigung 1 (VDE 0812 Berichtigung 1):2019-02
DIN VDE 0815:1985-09
DIN VDE 0815/A1:1988-05
(in Anlehnung an / with reference to)

Befristet zum / *valid until*: 2026-12-31

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Zertifizierungsstelle / *Certification*


T. Stenger

Aktenzeichen: 5015666-5320-0021 / 318000

File ref.:

Ausweis-Nr. 40036848

Certificate No.

Weitere Bedingungen siehe Rückseite und Folgeblätter /
further conditions see overleaf and following pages

Offenbach, 2013-02-14

(letzte Änderung / *updated* 2024-04-05)

Blatt 1
Page

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<http://www.vde.com/certificate>

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder

ÖREN KABLO A.S, Ortaköy Sanayi Bölgesi P.K., 34617 SELIMPASA SILIVRI, Istanbul, TURKEY

Aktenzeichen / File ref.

5015666-5320-0021 / 318000 / TL6 / BJO

letzte Änderung / updated

2024-04-05

Datum / Date

2013-02-14

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40036848.

This supplement is only valid in conjunction with page 1 of the Certificate No. 40036848.

Halogenfreie Schalltizen mit verbessertem Verhalten im Brandfall für Fernmelde- und Informationsverarbeitungsanlagen

***Halogen-free stranded equipment wires with improved characteristics in
the case of fire for telecommunication and data processing systems***

Typ(en) / Type(s)

LiHCH 2...4 x 0,5...2,5 mm² FE180/PH120 E90

Betriebsspannung
Working voltage

225 V (Spitzenwert / peak value)

Aufbau

flexible Kupferleiter, blank,
nach DIN EN 60228 Tab. 3
halogenfreie vernetzte Isoliermischung EI8
nach DIN EN 50363-5:2006-10

Construction

*flexible copper conductors, bare
acc. to DIN EN 60228 table 3
halogen free cross linked insulation EI8
acc. to DIN EN 50363-5:2006-10*

Halogenfrei
Halogen free

nach DIN EN 60754-2
acc. to DIN EN 60754-2

Fortsetzung siehe Blatt 3 /
continued on page 3

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder

ÖREN KABLO A.S, Ortaköy Sanayi Bölgesi P.K., 34617 SELIMPASA SILIVRI, Istanbul, TURKEY

Aktenzeichen / File ref.

5015666-5320-0021 / 318000 / TL6 / BJO

letzte Änderung / updated

2024-04-05

Datum / Date

2013-02-14

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This supplement is only valid in conjunction with page 1 of the Certificate No. 40036848.

Brennverhalten <i>Fire performance</i>	nach DIN EN 60332-1-2 und DIN EN 60332-3-24 <i>acc. to DIN EN 60332-1-2 and DIN EN 60332-3-24</i>
Isolationserhalt <i>Resistance to fire</i>	180 Minuten U = 300 V (Phase/Phase) nach - IEC 60331-23 - DIN EN 50200 (VDE 0482-200), PH 180 kleinster Biegeradius 10 x Kabeldurchmesser. <i>180 minutes U = 300 V (phase/phase) according to - IEC 60331-23 - DIN EN 50200 (VDE 0482-200), PH 180 smallest bending radius 10 x cable outer diameter.</i>
Funktionserhalt <i>Circuit integrity</i>	E90 nach DIN 4102-12:1998 Prüfbericht EFECTIS RFTR23175 vom 05.02.2024 <i>E90 nach/acc. to DIN 4102-12 Test report EFECTIS RFTR23175 dated 2024-02-05</i>
Rauchdichte <i>Smoke density</i>	nach DIN EN 61034-2 <i>according to DIN EN 61034-2</i>
Elektrische Eigenschaften <i>Electrical characteristics</i>	wie LiYCY ... nach DIN VDE 0812 Tabelle 4 Leiterwiderstand nach EN 60228 Tabelle 3 <i>as LiYCY ... acc. to DIN VDE 0812 table 4 conductor resistance acc. to EN 60228 table 3</i>
Verwendungsbereich <i>Guide to use</i>	nach DIN VDE 0812 Abschnitt 1, als halogenfreies Schaltkabel für Fernmelde- und Informationsverarbeitungsanlagen mit verbessertem Verhalten im Brandfall und Isolationserhalt. <i>acc. to DIN VDE 0812 clause 1, as halogen free switchboard cable for telecommunication systems and data processing systems with improved characteristics in the case of fire and resistance to fire.</i>
Firmenzeichen <i>Trademark</i>	ÖREN KABLO

Fortsetzung siehe Blatt 4 /
continued on page 4

VDE Prüf- und Zertifizierungsinstitut Gutachten mit Fertigungsüberwachung

Ausweis-Nr. / Blatt /
Certificate No. / Page
40036848 4

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*

ÖREN KABLO A.S, Ortaköy Sanayi Bölgesi P.K., 34617 SELIMPASA SILIVRI, Istanbul, TURKEY

Aktenzeichen / *File ref.*

5015666-5320-0021 / 318000 / TL6 / BJO

letzte Änderung / *updated*

2024-04-05

Datum / *Date*

2013-02-14

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This supplement is only valid in conjunction with page 1 of the Certificate No. 40036848.

Dieser Zeichengenehmigungsausweis bildet eine Grundlage für die EU-Konformitätserklärung und CE-Kennzeichnung durch den Hersteller oder dessen Bevollmächtigten.

This Marks Approval is a basis for the EU Declaration of Conformity and the CE Marking by the manufacturer or his agent.

VDE Prüf- und Zertifizierungsinstitut Gutachten mit Fertigungsüberwachung

Ausweis-Nr. / Beiblatt /
Certificate No. Supplement
40036848

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder

ÖREN KABLO A.S, Ortaköy Sanayi Bölgesi P.K., 34617 SELIMPASA SILIVRI, Istanbul, TURKEY

Aktenzeichen / File ref.

5015666-5320-0021 / 318000 / TL6 / BJO

letzte Änderung / updated

2024-04-05

Datum / Date

2013-02-14

Dieses Beiblatt ist Bestandteil des Zeichengenehmigungsausweises Nr. 40036848.

This supplement is part of the Certificate No. 40036848.

Halogenfreie Schlitzen mit verbessertem Verhalten im Brandfall für Fernmelde- und Informationsverarbeitungsanlagen

***Halogen-free stranded equipment wires with improved characteristics in
the case of fire for telecommunication and data processing systems***

Fertigungsstätte(n)

Place(s) of manufacture

Referenz/Reference

30021732

ÖREN KABLO A.S

Ortaköy Sanayi Bölgesi P.K.

34617 SELIMPASA SILIVRI

Istanbul

TURKEY

VDE Prüf- und Zertifizierungsinstitut Gutachten mit Fertigungsüberwachung

Ausweis-Nr. / Infoblatt /
Certificate No. Info sheet
40036848

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder

ÖREN KABLO A.S, Ortaköy Sanayi Bölgesi P.K., 34617 SELIMPASA SILIVRI, Istanbul, TURKEY

Aktenzeichen / File ref.

5015666-5320-0021 / 318000 / TL6 / BJO

letzte Änderung / updated

2024-04-05

Datum / Date

2013-02-14

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Die Genehmigung ist so lange gültig wie die VDE-Bestimmungen gelten, die der Zertifizierung zugrunde gelegen haben, sofern sie nicht auf Grund anderer Bedingungen aus der VDE Prüf- und Zertifizierungsordnung (PM102) zurückgezogen werden muss.

Der Gültigkeitszeitraum einer VDE-GS-Zeichengenehmigung kann auf Antrag verlängert werden. Bei gesetzlichen und / oder normativen Änderungen kann die VDE-GS-Zeichengenehmigung ihre Gültigkeit zu einem früheren als dem angegebenen Datum verlieren.

Produkte, die das Biozid Dimethylfumarat (DMF) enthalten, dürfen gemäß der Kommissionsentscheidung 2009/251/EG nicht mehr in den Verkehr gebracht oder auf dem Markt bereitgestellt werden.

Der VDE-Zeichengenehmigungsausweis wird ausschließlich auf der ersten Seite unterzeichnet.

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The approval is solely signed on the first page.

GUTACHTEN MIT FERTIGUNGSÜBERWACHUNG CERTIFICATE OF CONFORMITY WITH FACTORY SURVEILLANCE

ÖREN KABLO A.S
Ortaköy Sanayi Bölgesi P.K.
34617 Selimpasa Silivri
Istanbul
Turkey

ist berechtigt, für ihr Produkt /
is authorized to use for their product

Starkstromkabel mit verbessertem Verhalten im Brandfall, Sonderleitung
Cable with improved characteristics in case of fire, special cable

die hier abgebildeten markenrechtlich geschützten Zeichen
für die ab Blatt 2 aufgeführten Typen zu benutzen /
the legally protected Marks as shown below for the types referred to on page 2 ff.

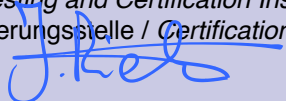
◁ VDE-REG F384 ▷

Geprüft und zertifiziert nach /
Tested and certified according to

DIN VDE 0276-604 (VDE 0276 Teil 604):2008-02; HD 604 S1:1994+A1:1997+A2:2002+A3:2005 Teile 0, 1 u. 5-G
HD 604 S1:1994+A1:1997+A2:2002+A3:2005, Part 5 Section H
(in Anlehnung an/with reference to)

Befristet zum / *valid until*: 2025-12-31

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Zertifizierungsstelle / *Certification*



J. Richter

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Aktenzeichen: 5015666-5920-0604 / 303904

File ref.:

Ausweis-Nr. 40056982

Blatt 1
Page

Certificate No.

Weitere Bedingungen siehe Rückseite und Folgeblätter /
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Offenbach, 2023-06-21

(letzte Änderung / *updated* 2024-02-20)

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ÖREN KABLO A.S, Ortaköy Sanayi Bölgesi P.K., 34617 SELIMPASA SILIVRI, Istanbul, TURKEY

Aktenzeichen / File ref.

5015666-5920-0604 / 303904 / TL6 / LR

letzte Änderung / updated

2024-02-20

Datum / Date

2023-06-21

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40056982.

This supplement is only valid in conjunction with page 1 of the Certificate No. 40056982.

Starkstromkabel mit verbessertem Verhalten im Brandfall, Sonderleitung *Cable with improved characteristics in case of fire, special cable*

Typ(en) / Type(s)

(N)HXH FE 180/PH 120/E 90

(N)HXH FE 180/E 90

Nennspannung
Rated voltage

U₀/U 0,6/1 kV

Aufbau

Leiter Kupfer blank nach DIN EN 60228, Klasse 1
Querschnittsbereich 1,5 ... 6 mm²
1 ... 7 Adern verseilt
Mantel, halogenfreie thermoplastische
Mantelfarbe orange

Construction

*Bare copper conductor acc. to DIN EN 60228, class 1
Cross sectional area 1,5 ... 6 mm²
1 ... 7 cores stranded
Sheath halogen-free thermoplastic compound
Sheath colour orange.*

Halogenfrei
Halogen free

nach/acc. to DIN EN 60754-2
(VDE 0482-754-2):2021-2 Abschnitt/ sub-clause 8.2
und/and DIN EN 60754-1 (VDE 0482-754-1):2021-2

Brennverhalten
Fire performance

nach/acc. to DIN VDE 0276-604:2008-02 Tab 2d 4.4.1
in Anlehnung an/with reference to
DIN EN 60332-3-24 (VDE 0482-332-3-24):2019-05
und/and DIN EN 60332-1-2 (VDE 0482-332-1-2):2022-07

Fortsetzung siehe Blatt 3 /
continued on page 3

VDE Prüf- und Zertifizierungsinstitut Gutachten mit Fertigungsüberwachung

Ausweis-Nr. / Blatt /
Certificate No. Page
40056982 3

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder

ÖREN KABLO A.S, Ortaköy Sanayi Bölgesi P.K., 34617 SELIMPASA SILIVRI, Istanbul, TURKEY

Aktenzeichen / File ref.

5015666-5920-0604 / 303904 / TL6 / LR

letzte Änderung / updated

2024-02-20

Datum / Date

2023-06-21

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This supplement is only valid in conjunction with page 1 of the Certificate No. 40056982.

Isolationserhalt
Resistance to fire

FE 180 nach/acc. to DIN VDE 0472 Part 814:1991-01
PH 120 nach/acc. to DIN EN 50200 (VDE 0482-200):2016-07
(Durchmesser/diameter < 20 mm und Leiterquerschnitt bis 2,5 mm² /and conductor cross section up to 2,5 mm²)

Rauchdichte
Smoke density

nach / acc. to DIN EN 61034-2
(VDE 0482-1034-2):2021-02

Funktionserhalt

E 90 nach DIN 4102-12:1998
Klassifizierung und Verlegeart siehe
Prüfbericht EFECTIS RFTR23161-Rev1 vom 12.02.2024
(dieser Prüfbericht ersetzt nicht das
Allgemeine bauaufsichtliche Prüfzeugnis (AbP))

Circuit integrity

E 90 acc. to DIN 4102-12:1998
Classification and installation method see
test report EFECTIS RFTR23161-Rev1 dated 2024-02-12
(this test report does not replace the "Allgemeines
bauaufsichtliches Prüfzeugnis (AbP)")

Verwendungsbereich
Guide to use

wie/ as NHHX FE 180

Firmenzeichen
Trademark

ÖREN KABLO

Dieser Zeichengenehmigungsausweis bildet eine Grundlage für die EU-Konformitätserklärung und CE-Kennzeichnung durch den Hersteller oder dessen Bevollmächtigten.

This Marks Approval is a basis for the EU Declaration of Conformity and the CE Marking by the manufacturer or his agent.

VDE Prüf- und Zertifizierungsinstitut Gutachten mit Fertigungsüberwachung

Ausweis-Nr. /
Certificate No.
40056982

Beiblatt /
Supplement

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*

ÖREN KABLO A.S, Ortaköy Sanayi Bölgesi P.K., 34617 SELIMPASA SILIVRI, Istanbul, TURKEY

Aktenzeichen / *File ref.*

5015666-5920-0604 / 303904 / TL6 / LR

letzte Änderung / *updated*

2024-02-20

Datum / *Date*

2023-06-21

Dieses Beiblatt ist Bestandteil des Zeichengenehmigungsausweises Nr. 40056982.

This supplement is part of the Certificate No. 40056982.

Starkstromkabel mit verbessertem Verhalten im Brandfall, Sonderleitung *Cable with improved characteristics in case of fire, special cable*

Fertigungsstätte(n)

Place(s) of manufacture

Referenz/*Reference*

30021732

ÖREN KABLO A.S
Ortaköy Sanayi Bölgesi P.K.
34617 SELIMPASA SILIVRI
Istanbul
TURKEY

VDE Prüf- und Zertifizierungsinstitut Gutachten mit Fertigungsüberwachung

Ausweis-Nr. / Infoblatt /
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Aktenzeichen / File ref.

5015666-5920-0604 / 303904 / TL6 / LR

letzte Änderung / updated

2024-02-20

Datum / Date

2023-06-21

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40056982.

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Genehmigung zum Benutzen des auf Seite 1 abgebildeten markenrechtlich geschützten Zeichens des VDE:

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Die Genehmigung ist so lange gültig wie die VDE-Bestimmungen gelten, die der Zertifizierung zugrunde gelegen haben, sofern sie nicht auf Grund anderer Bedingungen aus der VDE Prüf- und Zertifizierungsordnung (PM102) zurückgezogen werden muss.

Der Gültigkeitszeitraum einer VDE-GS-Zeichengenehmigung kann auf Antrag verlängert werden. Bei gesetzlichen und / oder normativen Änderungen kann die VDE-GS-Zeichengenehmigung ihre Gültigkeit zu einem früheren als dem angegebenen Datum verlieren.

Produkte, die das Biozid Dimethylfumarat (DMF) enthalten, dürfen gemäß der Kommissionsentscheidung 2009/251/EG nicht mehr in den Verkehr gebracht oder auf dem Markt bereitgestellt werden.

Der VDE-Zeichengenehmigungsausweis wird ausschließlich auf der ersten Seite unterzeichnet.

Approval to use the legally protected Mark of the VDE as shown on the first page:

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Products containing the biocide dimethylfumarate (DMF) may not be marketed or made available on the EC market according to the Commission Decision 2009/251/EC.

The approval is solely signed on the first page.



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Cortland, New York 13045 USA
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Fax Number: (607) 758-6637
Web: www.intertek.com

ETL Verified Certificate of Conformance Number: 104968553CRT-002a

On the basis of the tests undertaken, the sample(s) of the below product have been found to comply with the electrical transmission requirements of the referenced specification(s) at the time the tests were carried out.

Rendered to:

Oren Kablo AS.

Ortaköy Sanayi Bölgesi Selimpaşa

34617 Silivri - İstanbul

TÜRKİYE

www.orenkablo.com

Contact: Mr. Kazım Karlı

Product tested: Category 6, 4-pair, 23 AWG, U/UTP, LSZH, horizontal (solid) cable

Part number(s): 3Cat6UUTPHEcaXX

Compliant to: ANSI/TIA-568.2-D

EN 50173-1

ISO/IEC 11801-1

Authorized marking: ETL VERIFIED TO ANSI/TIA-568.2-D, EN 50173-1 and ISO/IEC 11801-1 CATEGORY 6

Continuing compliance to this specification is monitored through production testing, ongoing inspections by Intertek at the production facility and random sample testing.

Date Issued: 21-Mar-2022

Date Revised: 19-Aug-2024

Approved By:

Antoine Pelletier, Project Engineer

This verification supersedes all previous verifications with the noted Verification/Report number(s) dated before this verification notice.

NOTE: This verification is part of the full test report(s) and should be read in conjunction with it.

This Verification is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Verification. Only the Client is authorized to copy or distribute this Verification. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results referenced from this Verification are relevant only to the sample tested. This Verification by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.



Marine & Offshore

Certificate number: 61131/A0 BV

File number: ACE1/126/12

Product code: 2509H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to

UNTEL KABLOLARI SANAYI VE TICARET A/S
KOCAELI - TURKEY

for the type of product

COAXIAL CABLE
RG series

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships, Offshore Units, Naval Ships and Yachts.

EN 50117-1 (2019)

IEC 60332-1-2 (2015), IEC 60332-3-24 (2018)

IEC 60684-2 (2011)

IEC 60754-1/2 (2019)

IEC 61034-1/2 (2019)

MIL-C-17

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 03 Aug 2027

For Bureau Veritas Marine & Offshore,

At BV ISTANBUL, on 03 Aug 2022,

Gurcan Yilmaz

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <https://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=lbpcykncwp>

BV Mod. Ad.E 530 June 2017

This certificate consists of 4 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

Coaxial cables for Steel Ships, Offshore Units, Naval Ships and Yachts.

1.1 - Specifications:

Flame Retardant:	IEC 60332-1-2, IEC 60332-3-24
Halogen Free:	IEC 60684-2, IEC 60754-1/2
Low Smoke:	IEC 61034-1/2

1.2 - Construction:

Conductor:	Stranded tinned copper wire (RG 58 C/U (CuSn/CuSn) & RG 58 C/U (CuSn/CuSn) (double shielded) & RG 11 A/U (CuSn/Cu) (double shielded) types) Bare solid copper (RG 59 U/4 (Cu/Al) (double shielded) & RG 6 U/4 (Cu/Al) (double shielded) & RG 6 A/U (Cu/CuAg) (double shielded) & RG 59 B/U (Cu/Cu) (double shielded) types) Stranded bare copper wire (RG 213 /U (Cu/Cu) & RG 213 /U (Cu/Cu) (double shielded) types) Stranded silver coated copper wire (RG 214 /U (CuAg/CuAg) (double shielded) & RG 214 /U (CuAg/CuAg) (triple shielded) types)
Insulation:	Solid polyethylene (RG 58 C/U (CuSn/CuSn) & RG 58 C/U (CuSn/CuSn) (double shielded) type) & RG 6 A/U (Cu/CuAg) (double shielded) & RG 59 B/U (Cu/Cu) (double shielded) & RG 11 A/U (CuSn/Cu) (double shielded) & RG 213 /U (Cu/Cu) & RG 213 /U (Cu/Cu) (double shielded) & RG 214 /U (CuAg/CuAg) (double shielded) & RG 214 /U (CuAg/CuAg) (triple shielded) types) Gas injected skin/Foam/Skin polyethylene (RG 59 U/4 (Cu/Al) (double shielded) & RG 6 U/4 (Cu/Al) (double shielded) types)
1st Screen:	Tinned copper wire braiding (RG 58 C/U (CuSn/CuSn) type) Aluminium/polyester/aluminium tape (RG 58 C/U (CuSn/CuSn) (double shielded) & RG 6 U/4 (Cu/Al) (double shielded) & RG 6 A/U (Cu/CuAg) (double shielded) & RG 59 B/U (Cu/Cu) (double shielded) & RG 11 A/U (CuSn/Cu) (double shielded) & RG 213 /U (Cu/Cu) (double shielded) & RG 214 /U (CuAg/CuAg) (triple shielded) types) Aluminium foil (RG 59 U/4 (Cu/Al) (double shielded) type) Copper wire braiding (RG 213 /U (Cu/Cu) type) Silver coated copper wire braiding (RG 214 /U (CuAg/CuAg) (double shielded) type)
2nd Screen:	Tinned copper wire braiding (RG 58 C/U (CuSn/CuSn) (double shielded) type) Aluminium wire braiding (RG 59 U/4 (Cu/Al) (double shielded) & RG 6 U/4 (Cu/Al) (double shielded) types) Silver coated copper wire braiding (RG 6 A/U (Cu/CuAg) (double shielded) & RG 214 /U (CuAg/CuAg) (double shielded) & RG 214 /U (CuAg/CuAg) (triple shielded) types) Copper wire braiding (RG 59 B/U (Cu/Cu) (double shielded) & RG 11 A/U (CuSn/Cu) (double shielded) & RG 213 /U (Cu/Cu) (double shielded) type)
3rd Screen:	Silver coated copper wire braiding (RG 214 /U (CuAg/CuAg) (triple shielded) type)
Outer sheath:	SHF1

1.3 - Product Range:

Type	Frequency (MHz)	Number of cores	Cross-section (mm)
RG 6 A/U (Cu/CuAg) (double shielded)	2500	1	0.75
RG 6 U/4 (Cu/Al) (double shielded)	3000	1	1.02
RG 11 A/U (CuSn/Cu) (double shielded)	2500	7	0.4
RG 58 C/U (CuSn/CuSn) RG 58 C/U (CuSn/CuSn) (double shielded)	1000	19	0.18
RG 59 U/4 (Cu/Al) (double shielded)	3000	1	0.8
RG 59 B/U (Cu/Cu) (double shielded)	2500	1	0.58
RG 213 /U (Cu/Cu) RG 213 /U (Cu/Cu) (double shielded)	1000	7	0.75
RG 214 /U (CuAg/CuAg) (double shielded) RG 214 /U (CuAg/CuAg) (triple shielded)	2500	7	0.75

2. DOCUMENTS AND DRAWINGS:

Specification N° 2020_01_TS_001, Rev. 001, dated 21 Feb 2022.
 Specification N° 2020_01_TS_006, Rev. 001, dated 21 Feb 2022.
 Specification N° 2020_01_TS_007, Rev. 001, dated 21 Feb 2022.
 Specification N° 2020_01_TS_008, Rev. 001, dated 21 Feb 2022.
 Specification N° 2020_01_TS_011, Rev. 001, dated 21 Feb 2022.
 Specification N° 2020_01_TS_012, Rev. 001, dated 21 Feb 2022.
 Specification N° 2020_01_TS_015, Rev. 001, dated 21 Feb 2022.
 Specification N° 2020_01_TS_014, Rev. 001, dated 21 Feb 2022.

3. TEST REPORTS:**OREN KABLO AND UNTEL KABLO TEST PLACE:**

Test reports N° 200905/6/7/9 and 200910/1/2/5, dated 14 Jul 2020 and 25 Aug 2020.

UNTEL KABLOLARI SANAYI VE TICARET A/S:

Test reports N° T20020-R00, T20022-R00, T20027-R00, T20028-R00, T20029-R00, T20031-R00, T20033-R00 and T20035-R00, dated 01 Sep 2020.

Test reports dated 01 Sep 2020.

Test reports N° T210248/9-R00 and T210250/1/2/3/4/5-R00, dated 16 Nov 2021.

Test reports N° T210256/7/8/9-R00 and T210260/1/2/3-R00, dated 16 Nov 2021.

Test reports N° T210240/1/2/3/4/5/6/7-R00, dated 26 Nov 2021.

Test report dated 06 Apr 2022.

OREN KABLO:

Test reports dated 14 Jul 2020.

Test reports N° 200718, 200720 and 200723, dated 14 Jul 2020.

TSE LAB:

Test reports N° 661525, 661532/7, 661548, 661556/9 and 661561/2, dated 21 Jan 2022.

VDE Pruef- und Zertifizierungsinstitut GmbH:

Test report N° 296151-TL6-1, dated 30 May 2022.

4. APPLICATION / LIMITATION:

BUREAU VERITAS Rules for the Classification of Steel Ships, Offshore Units, Naval Ships and Yachts.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above products are to be supplied by **UNTEL KABLOLARI SANAYI VE TICARET A/S** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **UNTEL KABLOLARI SANAYI VE TICARET A/S** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, **UNTEL KABLOLARI SANAYI VE TICARET A/S** has declared to Bureau Veritas the following production site:

**OREN KABLO ANONIM SIRKETI
 ORTAKOY SANAYI BOLGESI
 SELIMPAA
 SILIVRI
 34617 ISTANBUL
 TURKEY**

6. MARKING OF PRODUCT:

The cable shall be marked on the surface outer sheath, in a durable legible and visible manner, with the following information through the length of cable:

6.1 - Numbering of the relevant standard

6.2 - Attenuation value (in dB/100 m at 800 MHz, rounded to an integer);

6.3 - Designation of the cable;

6.4 - Screening class;

6.5 - Euro-class (if applicable according to CPR requirements for fixed installations);

6.6 - Name of supplier.

7. OTHERS:

It is **UNTEL KABLOLARI SANAYI VE TICARET A/S**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

*** END OF CERTIFICATE ***



Marine & Offshore

Certificate number: 61130/A1 BV

File number: ACE1/126/13

Product code: 2505H

This certificate is not valid when presented without the full attached schedule
composed of 7 sections

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to

UNTEL KABLOLARI SANAYI VE TICARET A/S

KOCAELI - Türkiye

for the type of product

INSTRUMENTATION AND COMMUNICATION CABLES

Cat. 5e, 6 and 7

Type: DataMarin

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships, Offshore Units, Naval Ships and Yachts.

IEC 60332-1 (2015), IEC 60332-3-24 (2018)

IEC 60684-2 (2011)

IEC 60754-1/2 (2011)

IEC 61034-1/2 (2019)

IEC 61156-5 (2020)

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 16 Mar 2026

For Bureau Veritas Marine & Offshore,

At BV ISTANBUL, on 20 Oct 2023,

Gurcan Yilmaz

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <http://www.veristarp.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=w4wjnmcdp>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

Communications cables for Steel Ships, Offshore Units, Naval Ships and Yachts.

1.1 - Specifications:

Category:	5e, 6 and 7
Temperature class:	70°C
Flame Retardant:	IEC 60332-1-2, IEC 60332-3-24
Halogen Free:	IEC 60684-2, IEC 60754-1/2
Low Smoke:	IEC 61034-1/2

1.2 - Construction:

Conductor:	Bare copper, class 1 or 2
Insulation:	PE
Separator:	Al-Pet Foll
Armour:	Tinned copper wire or galvanized steel wire
Outer sheath:	SHF1

1.3 - Product Range:

Type	Category	Frequency (MHz)	Conductor class	Cross-section
DataMarin EC200 Cat 5e SF/UTP HFFR	5e	100	class 1	24 AWG
DataMarin EC400 Cat 6 SF/UTP HFFR	6	500		23 AWG
DataMarin EC900 Cat 7 S/FTP HFFR	7	500		23 AWG
DataMarin EC600 Flex Cat 7 S/FTP HFFR	7	600	class 2	24 AWG 7/32

2. DOCUMENTS AND DRAWINGS:

UNTEL KABLOLARI SANAYI VE TICARET A/S:

Specification N° 2023-TDS-02, Rev. 2, dated Mar 2023.
 Specification N° 2023-TDS-10, Rev. 2, dated Mar 2023.
 Specification N° 2023-TDS-11, Rev. 2, dated Mar 2023.
 Specification N° 2023-TDS-12, Rev. 3, dated Aug 2023.

3. TEST REPORTS:

UNTEL KABLOLARI SANAYI VE TICARET A/S:

Test reports Ref. T210017-R00 and T210018-R00, dated 15 Feb 2021.
 Test reports Ref. T210019-R00 and T210020-R00, dated 15 Feb 2021.
 Test reports Ref. T210021-R00 and T210022-R00, dated 15 Feb 2021.
 Test reports Ref. 200901, 200902, 200903 and 200904, dated 25 Aug 2020.
 Test reports Ref. 200702, 200703, 200704, 200705, dated 13 Jul 2020.
 Test reports, dated 13 Jul 2020.
 Test reports Ref. T20022-R00, dated 25 Aug 2020.

4. APPLICATION / LIMITATION:

BUREAU VERITAS Rules for the Classification of Steel Ships, Offshore Units, Naval Ships and Yachts.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above products are to be supplied by **UNTEL KABLOLARI SANAYI VE TICARET A/S** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **UNTEL KABLOLARI SANAYI VE TICARET A/S** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, **UNTEL KABLOLARI SANAYI VE TICARET A/S** has declared to Bureau Veritas the following production site:

**OREN KABLO ANONIM SİRKETİ
ORTAKOY SANAYİ BOLGESİ
SELİMPAŞA
SİLİVRİ
34617 İSTANBUL
Türkiye**

6. MARKING OF PRODUCT:

The cable shall be marked on the surface outer sheath, in a durable legible and visible manner, with the following information through the length of cable:

- Rated voltage
- Number of cores and cross-sectional area of the conductors
- Manufacturer's name or trademark
- Code designation (optional)

7. OTHERS:

It is **UNTEL KABLOLARI SANAYI VE TICARET A/S**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 61130/A0 BV issued on 16 Mar 2021 by the Society.

*** END OF CERTIFICATE ***

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