



## Class A



# RG 11 U/4 (Cu/Al) Trishield PE

ÖREN HQ 163 PE

### Kullanım Alanları

CATV dağıtım kablosu ve düşük zayıflama istenen SMATV (uydu anten) sistemlerde bağlantı kablosu olarak kullanılır, harici ortamlarda kullanıma uygundur.

#### Kablo Yapısı

<b>İç İletken</b>	Ø 1.63 mm Elektrolitik Bakır
<b>İzolasyon</b>	Ø 7.20 mm Fiziksel Köpüklü Skin/Foam/Skin PE
<b>1. Ekran</b>	Alüminyum Folyo (İzoleye Yapışık)
<b>2. Ekran</b>	Alüminyum Tellerden Örgü
<b>3. Ekran</b>	Alüminyum Folyo (Kılıfa Yapışık)
<b>Dış Kılıf</b>	Ø 10.00 mm PE

#### Teknik Özellikler

<b>Kablo Ağırlığı</b>	78 kg/km
<b>Bakır Ağırlığı</b>	19 kg/km
<b>Min. Bük. Yarı Çapı</b>	65 mm
<b>Maks. Gergi Kuvveti</b>	225 N
<b>Çalışma Sıcaklığı</b>	-30 °C ... +70 °C
<b>Ambalaj</b>	500 / 1000 m

#### Elektriksel Özellikler

<b>Empedans</b>	75 ± 2 Ω
<b>Kapasitans</b>	53 ± 2 pF/m
<b>Yayımlama Hızı</b>	% 84
<b>Yalıtım Direnci</b>	> 2 GΩxkm
<b>Çalışma Voltajı</b>	2000 V
<b>Test Voltajı</b>	5000 V
<b>İç İletken Direnci</b>	< 8.50 Ω/km

#### Zayıflamalar (20°C)

<b>5 MHz</b>	1.40 dB/100m
<b>50 MHz</b>	3.10 dB/100m
<b>230 MHz</b>	6.30 dB/100m
<b>470 MHz</b>	9.20 dB/100m
<b>860 MHz</b>	12.80 dB/100m
<b>1000 MHz</b>	14.20 dB/100m
<b>1200 MHz</b>	15.30 dB/100m
<b>2150 MHz</b>	20.90 dB/100m
<b>3000 MHz</b>	26.10 dB/100m

#### Geri Dönüş Kaybı (20°C)

<b>5-470 MHz</b>	> 26 dB
<b>470-1200 MHz</b>	> 23 dB
<b>1200-2000 MHz</b>	> 20 dB
<b>2000-3000 MHz</b>	> 18 dB

#### Transfer Empedansı

<b>5-30 MHz</b>	≤ 5 mΩ/m
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#### Ekranlama Zayıflaması

<b>30-1200 MHz</b>	≥ 85 dB
<b>1200-2000 MHz</b>	≥ 75 dB
<b>2000-3000 MHz</b>	≥ 65 dB

#### Standartlar

<b>Ekranlama Sınıfı</b>	Class A
<b>EN 50117-2-4</b>	

#### CPR Sınıfı

F<sub>ca</sub>

### Application

These types of cables are used for outdoor CATV distributions and connections of SMATV systems which require low attenuations.

#### Cable Construction

<b>Inner Conductor</b>	Ø 1.63 mm Bare Copper
<b>Insulation</b>	Ø 7.20 mm Gas Injected Skin/Foam/Skin PE
<b>1<sup>st</sup> Shielding</b>	Aluminum Foil (Bonded to the Insulation)
<b>2<sup>nd</sup> Shielding</b>	Aluminum Wire Braiding
<b>3<sup>rd</sup> Shielding</b>	Aluminum Foil (Bonded to the Jacket)
<b>Outer Sheath</b>	Ø 10.00 mm PE

#### Technical Properties

<b>Cable Weight</b>	78 kg/km
<b>Copper Weight</b>	19 kg/km
<b>Min. Bending Radius</b>	65 mm
<b>Max. Tensile Strength</b>	225 N
<b>Temperature Range</b>	-30 °C ... +70 °C
<b>Packing</b>	500 / 1000 m

#### Electrical Properties

<b>Impedance</b>	75 ± 2 Ω
<b>Capacitance</b>	53 ± 2 pF/m
<b>Velocity of Propagation</b>	84 %
<b>Insulation Resistance</b>	> 2 GΩxkm
<b>Operating Voltage</b>	2000 V
<b>Test Voltage</b>	5000 V
<b>Inner Conductor DCR</b>	< 8.50 Ω/km

#### Attenuations (20°C)

<b>5 MHz</b>	1.40 dB/100m
<b>50 MHz</b>	3.10 dB/100m
<b>230 MHz</b>	6.30 dB/100m
<b>470 MHz</b>	9.20 dB/100m
<b>860 MHz</b>	12.80 dB/100m
<b>1000 MHz</b>	14.20 dB/100m
<b>1200 MHz</b>	15.30 dB/100m
<b>2150 MHz</b>	20.90 dB/100m
<b>3000 MHz</b>	26.10 dB/100m

#### Return Loss (20°C)

<b>5-470 MHz</b>	> 26 dB
<b>470-1200 MHz</b>	> 23 dB
<b>1200-2000 MHz</b>	> 20 dB
<b>2000-3000 MHz</b>	> 18 dB

#### Transfer Impedance

<b>5-30 MHz</b>	≤ 5 mΩ/m
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#### Screening Attenuation

<b>30-1200 MHz</b>	≥ 85 dB
<b>1200-2000 MHz</b>	≥ 75 dB
<b>2000-3000 MHz</b>	≥ 65 dB

#### Standards

<b>Screening Class</b>	Class A
<b>EN 50117-2-4</b>	

#### Euro Class

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