

Product name	192F G657A1 200µm Microcable S12 MLT Black PA OD 6.7mm 4km
Product code	4968177
Product type	GRHLDV 192XG657A1
GTIN	7332811312397
ETIM-Class	EC000034

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## PRODUCT SPECIFICATIONS

Micro cables typically used in outdoor microduct installation applications. The cables are suitable for air-blown installation. Cable parameters such as cable diameter, stiffness and sheath friction are optimized for best installation performance. The cable is based on a slim multi loose tube construction with SZ design around a central strength member of fiberglass-reinforced plastic (FRP) which facilitates mid-span access.

## Measurements

Length	1 000 mm
Height	6,7 mm
Width	6,7 mm
Weight	55 g

## Physical Characteristics

Fibre Count	192
Cable Construction	Multi Loose Tube (MLT)
Fibre Type	ITU-T G.657 A1 200um
Fibres per Tube	24
Fibre Colour Sequence	S12
Tube Size	165 mm
Central Strength Member	FRP
No of Tubes	8
Tube Colour Sequence	S12

Outer Sheath Material	PA (Polyamid)
Colour of Cable Sheath	Black
Nominal Sheath Thickness	0,4 mm
No of Ripcords Below Outer Sheath	1
Cable Diameter	6,7 mm
Cable Diameter Tolerance	+/- 0.3mm
Nominal Cable Weight	48 kg/km

## Mechanical & Environmental Characteristics

Halogen Free	Yes
UV Proof	Yes
Metal free	Yes
Tensile Strength (N) IEC-60794-1-21-E1	1 000 N
Crush Resistance - IEC- 60794-1-21-E3	500 N/10cm
Impact Strength (Nm) IEC-60794-1-21-E4	50
Torsion IEC-60794-1-21-E7	± 180°
Min. Bend Radius (During Installation) IEC-60794-1-21-E11	20 x d
Min. Bend Radius (After Installation) IEC-60794-1-21-E11	10 x d
Water Penetration Test IEC-60794-1-22-F5	1m head, 3m samples, 24 hrs.
Drip Test IEC-60794-1-21-E14	30 cm, 70°C, 24 hr
Temperature Performance Installation IEC-60794-1-22-F1	-15°C to +70°C (max. change in attenuation shall be ≤ 0.15 dB/km)
Temperature Performance Operation IEC-60794-1-22-F1	-40°C to +70°C (Max. change in attenuation shall be ≤ 0.15 dB/km)
Temperature Performance Storage IEC-60794-1-22-F1	-40°C to +70°C (Max. change in attenuation shall be ≤ 0.15 dB/km)

## Sustainability

product.sustainability-label.epd	Yes
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