

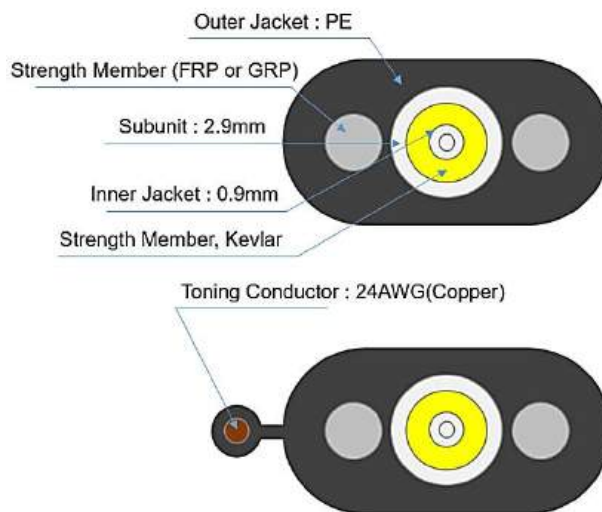
Technical Specification

Flat 8.1x4.5mm Dielectric Drop Cable G.657.A2, 1Fiber

Cable Shape	Strength Member	Outer Jacket Material
Flat 8.1x4.5mm and Toning Conductor (Option)	FRP and Kevlar in Subunit	MDPE

1. Product Description

UCL’s all-dielectric and flat shape FTTH drop cable is designed for installation in various outside environment, direct buried, conduit and aerial self-supporting applications. It is also available with toning conductor version that is easy to detect in underground installation.



2. Features and Benefits

- Ruggedized design for outdoor environment, installing in underground, conduit and aerial.
- No bonding and grounding requirements (All-Dielectric)
- Easy detection in underground installation environment (Toning Conductor)

3. Cable Construction

Fiber & Subunit	Fiber type & Count		G.657.A2 & 1Core (Corning ClearCurve)
	Sub-unit & Inner Jacket		2.9mm & 0.9mm
	Material		OFNR
	Color (Subunit)		White
	Color (Inner Jacket)		White
Strength Member	Material		FRP or GRP
	Count		2 EA
Outer Sheath	Material		MDPE
	Color		Black
Physical Dimension	Diameter (mm)	Width	8.1 ±0.2
		Height	4.5 ±0.2
Detecting Option	Toning Conductor		24 AWG Copper
	Cable size with conductor		10.2 x 4.5 mm

4. Environmental Properties

Temperature	Installation	-30~+70°C
	Operating	-40~+70°C

5. Mechanical Properties

Tensile Strength	Short Term	1350N	IEC60794-1-E1
	Long Term	400N	
Crush	1000N/100mm		IEC60794-1-E3
Twist	10 Cycles		IEC60794-1-E7
Cycle Flexing	35Cycles		IEC60794-1-E6

6. Ordering Information

Part Number	Product Description
DRC-PE8145B-FR00-P29KVP09-A201	Flat, 8.1x4.5m, MDPE outer jacket, 2.9mm subunit, 0.9mm tight buffered inner jacket, G.657.A2 1core
DRC-PE1045B-FRTC-P29KVP09-A201	Flat with Toning conductor(24AWG), 10.2x4.5m, MDPE outer jacket, 2.9mm subunit, 0.9mm tight buffered inner jacket, G.657.A2 1core

7. Marking & Packing

7.1 Sheath Marking

The cable shall have the following information clearly marked on the cable outer sheath at regular interval of one meter or one feet by Ink Jet printer with white color.

- (1) Length in meter or feet : 0000M
- (2) Manufacturer's Name : UCL
- (3) Year of manufacture : 20xx
- (4) Fiber count : 1C
- (5) Fiber type : SM G657A1 or G657A2
- (6) Outer sheath material : MDPE
- (7) Cable Size : 8145(8.1x4.5mm) or 1045(10.2x4.5mm)

(8) Printing – with Toning Conductor

0000ft UCL 2022 1C G657A2 CORNING FIBER MDPE TC 8145(1045) 0001ft

(9) Printing – without Toning Conductor

0000ft UCL 2022 1C G657A2 CORNING FIBER MDPE 8145 0001ft

7.2 Packing

- (1) 1000ft, 2000ft or other cable length is also available if required by customer.
- (2) Each length of the cable shall be wound on a wooden reel or plywood reel.
- (3) The cable ends shall be securely fastened to the reel to prevent the cable from becoming loose in transit or during operations.
- (4) A suitable plastic tape shall be laid on cable to prevent the entry of moisture during shipping, handling and storage.

7.3 Labelling

The label information on the reel is below

- (1) Product part number
- (2) Fiber type and Count
- (3) Cable length(meter or feet)
- (4) Gross weight in kilograms
- (5) Reel number
- (6) Year of manufacture