

Technical Specification

Flat 8.1x4.5mm Dielectric Drop Cable up to 24 Fibers

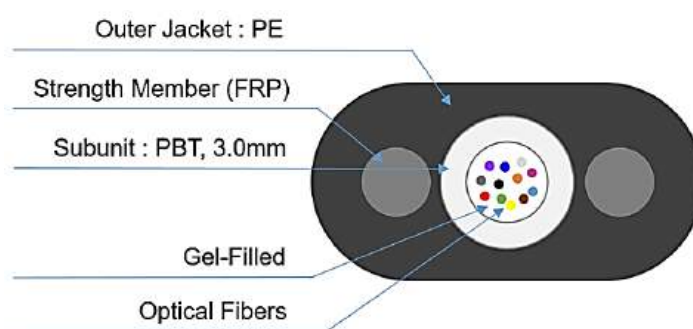
Cable Shape	Strength Member	Jacket Material
Flat 8.1x4.5mm	FRP	Outer : PE Inner : PBT

1. Product Description

UCL’s all-dielectric and flat shape FTTH drop cable with gel-filled single loose tube 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 optional)



3. Cable Construction

Fiber & Subunit	Fiber type	G.652.D, G.652.A1, G.657.A2
	Fiber Count	Up to 24 fibers
	Sub-unit	Nom. 3.0mm
	Material	PBT Gel-Filled Tube
Strength Member	Material	FRP
	Count	2 EA
Outer Sheath	Material	PE
	Color	Black
Physical Dimension	Width	8.1 ±0.2
	Height	4.5 ±0.2
Detecting Option	Toning Conductor	24 AWG Copper
	Cable size with conductor	Nom. 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	
Twist	10 Cycles		IEC60794-1-E7
Cycle Flexing	35Cycles		IEC60794-1-E6

6. Ordering Information

Part Number	Product Description
DRC-PE8145B-FR00-PB30GF-A212	Flat, 8.1x4.5m, PE outer jacket, 3.0mm PBT subunit, G.657.A2 12fibers
DRC-PE8145B-FR00-PB30GF-2D12	Flat, 8.1x4.5m, PE outer jacket, 3.0mm PBT subunit, G.652.D 12fibers

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(ft)
- (2) Manufacturer's Name : UCL
- (3) Year of manufacture : 20xx
- (4) Fiber count : 12F
- (5) Fiber type : SM G652D, G657A1, G657A2
- (6) Outer sheath material : PE
- (7) Cable Size : 8145(8.1x4.5mm)
- (8) Printing on the outer jacket

0000ft UCL 2023 12F G657A2 PE Flat 8145 0001ft

7.2 Packing

- (1) 2000ft, 5000ft 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