BK-OSPC-TFDD
Toneable Flat Drop Cable Dry

APPLICATIONS

Outdoor	Aerial	Duct Installation	Direct-buried	Self-supporting	Toneable

PROTECTIONS

UV Resistant	Water Blocking	Crush Resistant
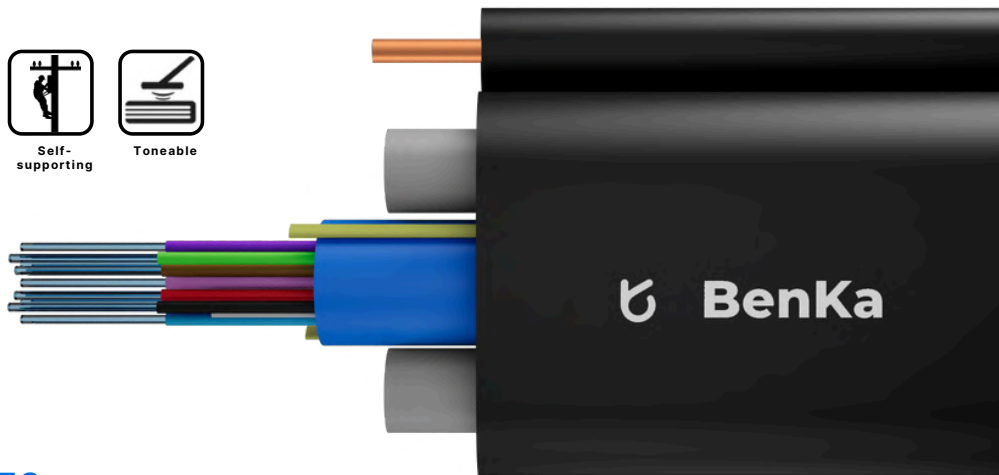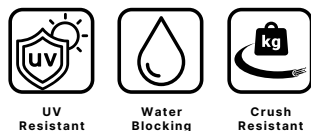
FEATURES & BENEFITS

BenKa's Flat Drop Cable Dry is designed primarily for drop applications, making it ideal for self-supporting, direct-buried, or duct installations. It ensures easy access, quick installation, and excellent mechanical performance against impact and crush.

USER-FRIENDLY DESIGN

The jacket is easy to open with basic tools, and the buffer tube separates smoothly from the jacket and strength members. The 3.0 mm buffer tube provides reliable protection when routing fibers to splice trays.

EXTERNAL TRACER WIRE IN A WEDDED CONFIGURATION

Simplifies location of the cable after installation, can be grounded or accessed without opening the rest of the cable. Easily separated from the rest of the cable without compromising the jacket

ALL-DIELECTRIC STRENGTH MEMBERS

The flexible design resists kinks and bends, ensuring reliable performance in various environments.

DRY WATER-BLOCKING TECHNOLOGY

Completely Gel-free cable design allows for fast, clean, and cost-effective cable preparation and termination. The water-blocking materials are easy to remove for a hassle-free installation process.

COMPACT AND VERSATILE CONSTRUCTION

With a small cross-section and high strength, the cable delivers excellent aerial performance and can be easily pushed or pulled through ducts. Its dual-strength member design offers superior flexibility and easier handling compared to figure-8 designs, making it a great alternative for applications where steel is not permissible.
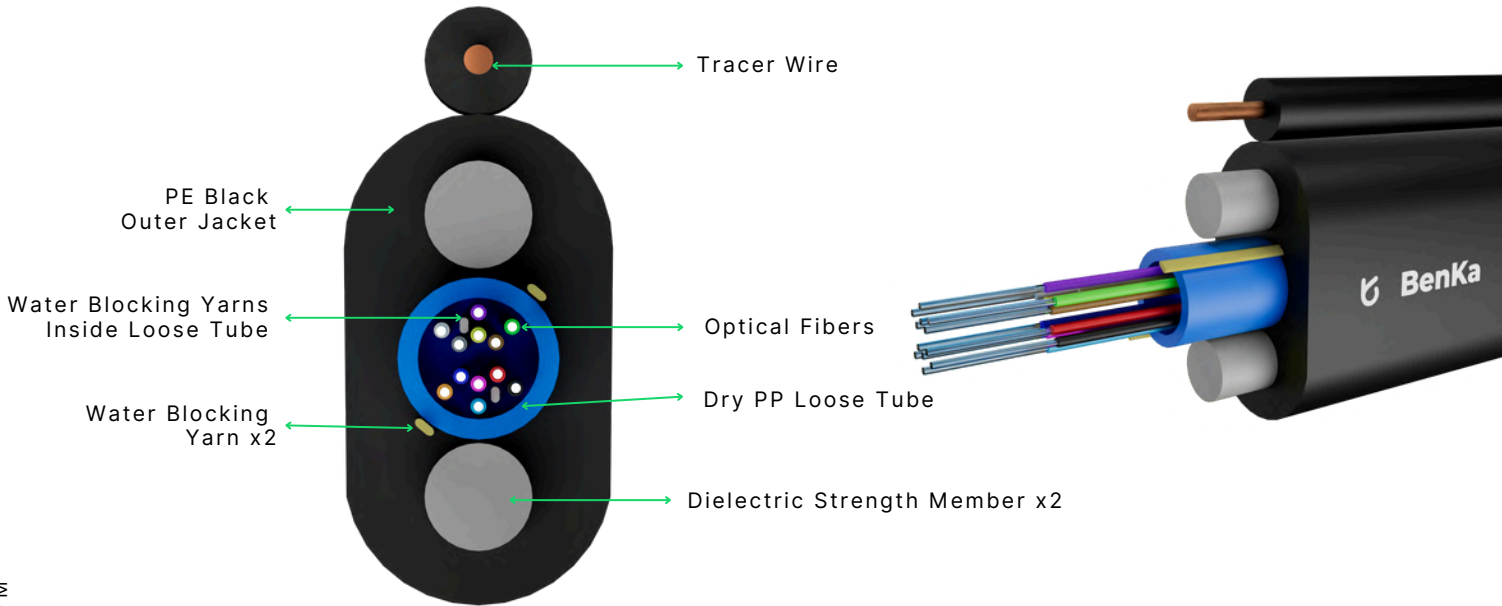
DURABLE HDPE JACKET

The low-friction jacket ensures smooth installation and provides exceptional protection against UV radiation, environmental hazards, and abrasion. Clear sheath markings enable positive identification and length tracking.

PERFORMANCE AND CERTIFICATIONS

This Cable complies or exceeds the following international standards: Telcordia GR-20, ANSI/ICEA S-110-717 and IEC 60794, ensuring high-quality and reliable performance. All Drums include a test report certificate.

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info@benkatechnologies.com

FEATURES AND DIMENSIONS

- Tracer Wire
- PE Black Outer Jacket
- Water Blocking Yarns Inside Loose Tube
- Optical Fibers
- Water Blocking Yarn x2
- Dry PP Loose Tube
- Dielectric Strength Member x2

Design	
Fiber Count	1-24
Fiber Color Code	
Loose Tube Diameter (±5%)	3.0 mm (0.12 in)
Dielectric Strength Member Diameter / Material	1.65 mm / EAA Coated FRP
Outer Jacket Material	Polyethylene
Toning Conductor	24 AWG copper wire
Drum Length	2,000 ft, 5,000 ft, 10,000 ft, 15,000 ft & 20,000 ft (±5%)
Temperature Range	
Operation	-40°C to 70°C (-40° F to 158° F)
Installation	-30°C to 70°C (-22° F to 158° F)
Storage / Transport	-40°C to 70°C (-40° F to 158° F)
Mechanical Properties	
Crush Resistance (Short-term / Long-term)	2,200 N/100 mm / 1,100 N/100 mm
Minimum Bend Radius (operation/installation)	10 x OD / 20 x OD

IMPORTANT: BenKa recommends storing the cable in a temperature-controlled environment prior to installation, so that the cable temperature adjusts to the recommended installation temperature range, ensuring the best installation results.
Note: 24 fiber reels only contains one water blocking yarn.

Fiber Count	Cable Weight (kg/km) (lb/kft) (±10%)	Tensile Strength (N) (lbf) Long-term/Short-term	Nominal Outer Diameter (mm) (in)	Dielectric Strength Member (mm) (in)
1-12	48 (32)	400 / 1,350 (90 / 303)	10.0 (±0.65) x 4.5 (±0.5) (0.38 x 0.18)	1.65 (0.065)
24	44 (29)	400 / 1,350 (90 / 303)	10.0 (±0.4) x 4.5 (±0.3) (0.39 x 0.17)	1.65 (0.06)

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PRINTED DETAILS ON THE OUTER JACKET

BenKa Technologies TFDD XX F SM OPTICAL CABLE   XXXXXFT LOT XXXX Month/ Year

The marking can be customized according to each client's requirements

TRANSMISSION PERFORMANCE BY FIBER TYPE

Fiber Type				
BenKa Fiber Type	G652.D	G657.A1	G657.A2	G657.B3
BenKa Fiber Code	SM	A1	A2	B3
Wavelength (nm)	1550		1310/1550	
Max.attn. (dB/km) (1)	0.36/0.25		0.4/0.3	
Cable Marking Specifications	G652.D	G657.A1	G657.A2	G657.B3

ORDERING INFORMATION

FAMILY: OUTSIDE PLANT CABLES
SUBFAMILY: TONABLE FLAT DROP, DRY
ACRONYM: TFDD

PART NUMBER: BK-OSPC-TFDD-**XX**-**XXX**-**X**

FIBER TYPE

2D - SINGLE MODE G652D
A1 - SINGLE MODE G657A1
A2 - SINGLE MODE G657A2
B2 - SINGLE MODE G657B2
B3 - SINGLE MODE G657B3
M1 - MULTIMODE 62.5/125
M2 - MULTIMODE 50/125
M3 - MULTIMODE 50/125 10 GBS
M4 - MULTIMODE 50/124 40 GBS

FIBER COUNT

006 - 6 FIBERS
008 - 8 FIBERS
012 - 12 FIBERS
024 - 24 FIBERS

STRENGTH MEMBER

D - DRY LOOSE TUBE
S - SIMPLEX CABLE INSIDE
T - DUAL CABLE INSIDE

This datasheet is for reference only; the products are customized according to the specific needs of each client.

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