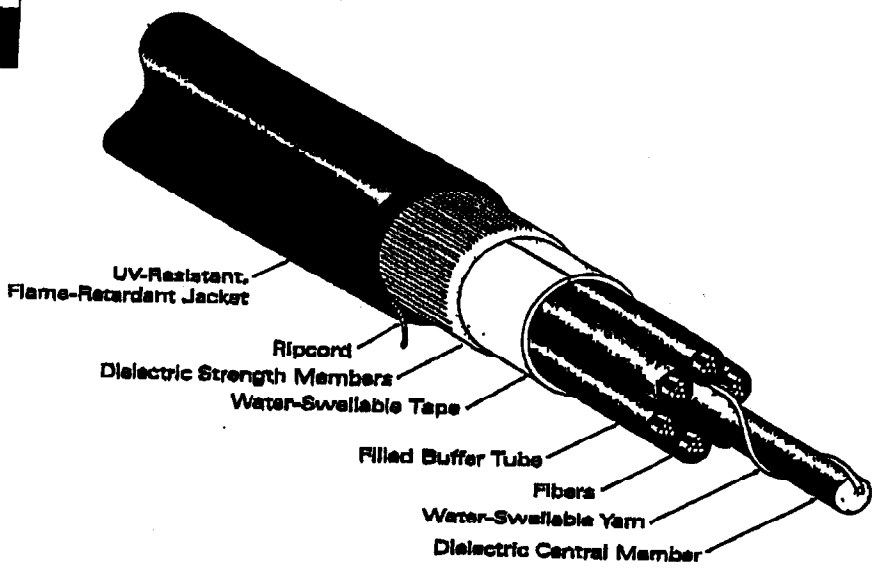
FREEDM™ Loose Tube Cables

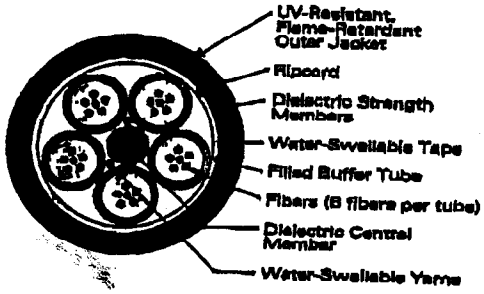
Siecor's FREEDM™ cables are flame-retardant, UV-stabilized, and fully waterblocked for use in indoor/outdoor applications. They are suitable for installation in duct, aerial, and riser environments. Because they meet the UL-1666 OFNR specification, there is no need for a transition splice when entering the building. Available from 2 to 288 fibers, the FREEDM cable buffer tubes and the fibers inside are color-coded for quick, easy identification.

APPLICATIONS

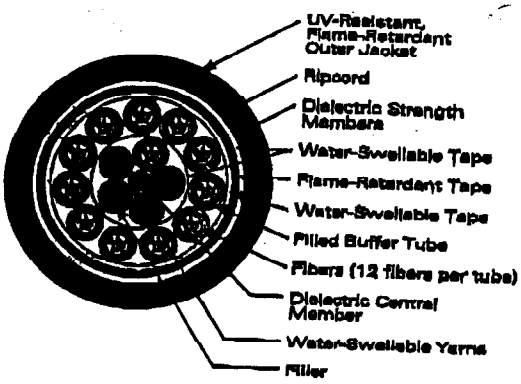
- Premises drop out to first splice point, duct or aerial
- High-fiber count trunking, especially in areas with limited conduit or vault space



30-Fiber FREEDM Loose Tube Cable



144-Fiber FREEDM Loose Tube Cable



FEATURES AND BENEFITS

- Dry™ cables incorporating an innovative waterblocking design eliminate the need for traditional flooding compound
- Listed OFNR and FT-4
- Available in 62.5 µm, 50 µm, single-mode, and hybrid versions
- UV-resistant outer jacket
- Color-coded fibers and buffer tubes for quick and easy identification during installation
- Available with interlocking armor
- All-dielectric construction
- Contains Corning® InfiniCor™ fiber with guaranteed Gigabit Ethernet Performance

U.S. Patent No. 5,343,549

10-1-02

RECEIVED
OCT 1 2002
KNIGHT / JACOBS (JV)

indoor/outdoor

LANscape®

CPC-220/1/22, CPC-220/1/23, CPC-220/1/24

FREEDM™ Loose Tube Cables

SPECIFICATIONS

Maximum Tensile Loading	Short Term: 2700 N (600 lbf) Long Term: 600 N (135 lbf)
Operating/Storage Temperature	-40 to +70 °C (-40 to +158 °F)
Installation Temperature	-20 to +70 °C (-4 to +158 °F)
NEC/CSA Listing	OFNR (UL 1666)/FT-4

Fiber Count	Fibers per Tube	Central Member	Nominal Outer Diameter mm (in)	Nominal Weight kg/km (lb/1000 ft)	Minimum Bend Radius Loaded cm (in)	Minimum Bend Radius Installed cm (in)
* ≤ 30	6	Dielectric	13.5 (0.53)	166 (112)	20.3 (8.0)	13.5 (5.3)
36	6	Dielectric	14.4 (0.57)	189 (128)	21.6 (8.5)	14.4 (5.7)
48	12	Dielectric	13.5 (0.53)	166 (112)	20.3 (8.0)	13.5 (5.3)
72	12	Dielectric	14.4 (0.57)	189 (128)	21.6 (8.5)	14.4 (5.7)
96	12	Dielectric	17.0 (0.67)	246 (167)	25.5 (10.1)	17.0 (6.7)
120	12	Dielectric	19.0 (0.75)	299 (203)	28.5 (11.2)	19.0 (7.5)
192	12	Dielectric	20.4 (0.81)	323 (219)	30.6 (12.1)	20.4 (8.1)
216	12	Dielectric	21.3 (0.84)	356 (241)	32.0 (12.6)	21.3 (8.4)
240	12	Dielectric	22.2 (0.88)	390 (264)	33.3 (13.1)	22.2 (8.8)
288	12	Dielectric	24.2 (0.95)	456 (309)	36.3 (14.3)	24.2 (9.5)

TRANSMISSION PERFORMANCE

Performance Option Code	30 Gigabit Plus™ 62.5/125 µm InfiniCor™ 300 (850/1300 nm)	50 Gigabit Plus CL 62.5/125 µm InfiniCor CL 1000 (850/1300 nm)	31 50/125 µm InfiniCor 600 (850/1300 nm)	01 Single-mode (1310/1550 nm)
Maximum Attenuation (dB/km)	3.5/1.0	3.5/1.0	3.5/1.5	0.4/0.3
Minimum LED Bandwidth (MHz•km)	200/500	200/500	500/500	—
Gigabit Ethernet Distance Guarantee (m)	300/550	500/1000	600/600	5,000

ORDERING INFORMATION

024 K 30

[1][2] WF-141-[3] A20

Use the following options to construct the part number:

1 Select Fiber Count.
002 to 288

2 Select Fiber Type.
K = 62.5/125 µm
C = 50/125 µm
R = Single-mode

3 Select Performance Option Code.
30 = 62.5/125 µm–Gigabit Plus
50 = 62.5/125 µm–Gigabit Plus CL
31 = 50/125 µm
01 = Single-mode

Note: Use with Buffer Tube Fan-Out Kit for Direct Termination Applications. Please see pages 2.2–2.3.