

# RIBBON CABLE: THE BEST OF BOTH WORLDS

## RIBBON CABLES OFFER SIGNIFICANT SPACE SAVINGS FOR HIGH-DENSITY APPLICATIONS, AND MASS FUSION SPLICING ENABLES REDUCED INSTALLATION COSTS AND EMERGENCY RESTORATION TIME.

Berk-Tek offers a range of ribbon cable solutions, including Indoor Plenum, Indoor Riser, Indoor/Outdoor Riser, and Outdoor Armored, available in fiber counts up to 432.

### Why ribbon technology?

Significant space savings using high fiber counts within reduced diameter cables.

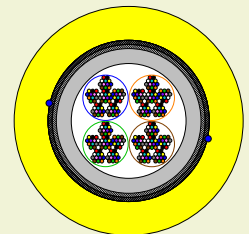
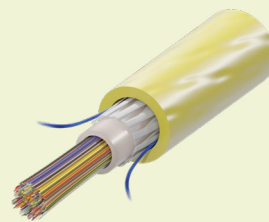
- Ribbon cable is ideal for ducts, trays and cabinets.
- Ribbons are easily separated for single-fiber splicing if needed.

Less installation time and costs, and significantly reduced emergency restoration time, since mass fusion splicing is enabled.

- On 144F cables, mass fusion splicing 12F-to-12F requires 92% fewer splices than single fiber-to-fiber splicing.
- Smaller footprint enabled in splice enclosures and telecommunications room fiber management.

### Indoor Flex – Plenum and Riser

- Features single-mode 12-fiber ribbons with unique marking patterns for each ribbon number.
- Ribbon flexibility allows for dense fiber packing and reduced cable diameter with non-preferential bend.
- Space-saving flexible ribbon structure enables easy separation of the fibers from the matrix for splicing or termination to a MPO connector.



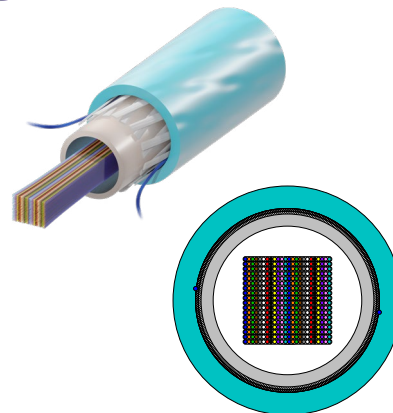
INDOOR FLEX					
Plenum			Riser		
Fiber Count	Cable Diameter nominal	Cable Weight nominal	Fiber Count	Cable Diameter nominal	Cable Weight nominal
144	12.0 mm (0.47 in.)	153 kg/km (103 lbs/kft)	144	10.1 mm (0.40 in)	104 Kg/km (70 lbs/kft)
216	14.4 mm (0.57 in.)	193 kg/km (130 lbs/kft)	216	NA	NA
288	14.4 mm (0.57 in.)	200 kg/km (134 lbs/kft)	288	14.4 mm (0.57 in)	153 Kg/km (103 lbs/kft)

# RIBBON CABLE SOLUTIONS FROM BERK-TEK

## Indoor Plenum

- Ideal for intra-building applications, allowing high fiber density and saving valuable duct space.
- Dry central tube construction for easy installation and no-mess splicing.
- Step-index single-mode or graded index multimode optical fiber options available.

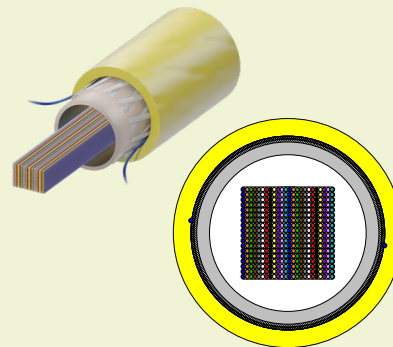
PLENUM CABLE		
Fiber Count	Cable Diameter nominal	Cable Weight nominal
12-48	11.3 mm (0.44 in.)	128 kg/km (86 lbs/kft)
60-90	14.0 mm (0.55 in.)	192 kg/km (129 lbs/kft)
108-216	16.6 mm (0.65 in.)	257 kg/km (173 lbs/kft)
288-432	21.6 mm (0.85 in.)	392 kg/km (263 lbs/kft)



## Indoor Riser

- Perfect for indoor premises and riser applications, permitting rapid installation, preparation, and splicing.
- Ribbons easily separated for single fiber splicing if needed.
- Step-index single-mode or graded index multimode optical fiber options available.

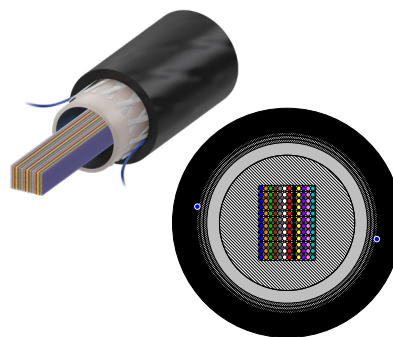
RISER CABLE		
Fiber Count	Cable Diameter nominal	Cable Weight nominal
12-96	13.2 mm (0.52 in.)	151 kg/km (102 lbs/kft)
108-216	15.7 mm (0.62 in.)	190 kg/km (128 lbs/kft)
240-432	20.5 mm (0.81 in.)	313 kg/km (210 lbs/kft)



## Indoor/Outdoor Riser

- Eliminates the need to switch from an outside plant to a premise cable when transitioning from outside to inside plant.
- Peelable ribbon matrix for easy fiber access.
- Step-index single-mode or graded index multimode optical fiber options available.

INDOOR/OUTDOOR RISER		
Fiber Count	Cable Diameter nominal	Cable Weight nominal
12-48	15.5 mm (0.61 in.)	152 kg/km (102 lbs/kft)
60-144	17.0 mm (0.67 in.)	230 kg/km (155 lbs/kft)



## Outdoor Armored

- Features a dry water block yarn that eliminates flooding gels.
- Intended for duct, direct buried, and lashed aerial installations.
- Steel armored sheath construction adds compressive strength required for direct buried applications.

OUTDOOR CABLE		
Fiber Count	Cable Diameter nominal	Cable Weight nominal
12-48	12.1 mm (0.48 in)	147 Kg/km (99 lbs/kft)
60-96	14.7 mm (0.58 in)	208 Kg/km (140 lbs/kft)
108-144	16.2 mm (0.64 in)	252 Kg/km (169 lbs/kft)
156-216	20.4 mm (0.80 in)	305 Kg/km (205 lbs/kft)
240-288	21.9 mm (0.86 in)	371 Kg/km (249 lbs/kft)
312-432	24.6 mm (0.97 in)	425 Kg/km (286 lbs/kft)

