

# 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.

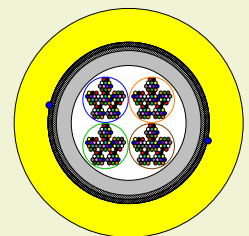
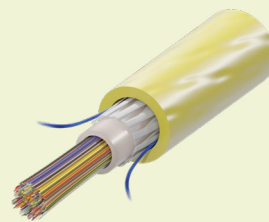
- Ribbon cable is ideal for ducts, trays and cabinets.
- Ribbons are easily separated for single-fiber splicing if needed.

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.



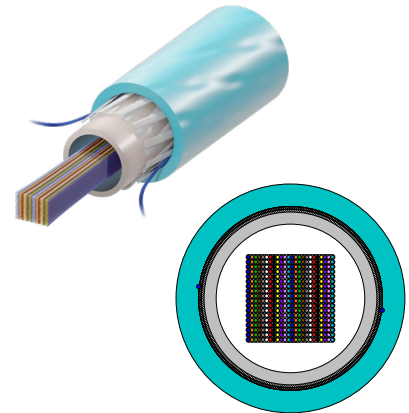
| INDOOR FLEX |                        |                         |             |                        |                         |
|-------------|------------------------|-------------------------|-------------|------------------------|-------------------------|
| Plenum      |                        |                         | 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.

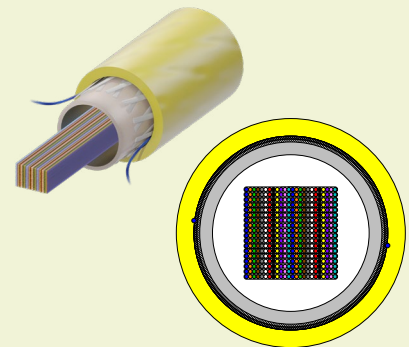
| PLENUM CABLE |                        |                         |
|--------------|------------------------|-------------------------|
| Fiber Count  | Cable Diameter nominal | Cable Weight nominal    |
| 12-48        | 11.3 mm (0.44 in.)     | 128 kg/km (86 lbs/kft)  |
| 60-90        | 14.0 mm (0.55 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.

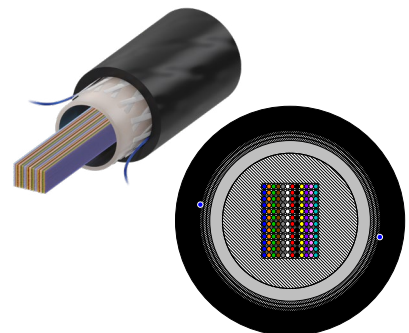
| RISER CABLE |                        |                         |
|-------------|------------------------|-------------------------|
| Fiber Count | Cable Diameter nominal | Cable Weight nominal    |
| 12-96       | 13.2 mm (0.52 in.)     | 151 kg/km (102 lbs/kft) |
| 108-216     | 15.7 mm (0.62 in.)     | 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) |

