

Outside Plant Cable



① Direct Buried Cable

Direct buried cable can be buried directly into the ground in a trench or using a vibratory plow. Except for with great water-blocking and moisture-proof performance, it also has good crushing and mechanical performance. With metallic central strength members, it offers ease of location while dielectric design eliminates grounding issues.

② Duct Cable

Duct cables are typically buried, and then the cables are air-blown, jetted, pulled or pushed into the duct. It features high tensile strength and excellent waterproof protection. Usually armored cables are installed under floors in data centers or in rocky soil, as well as to prevent rodent penetration.

③ Aerial Cable

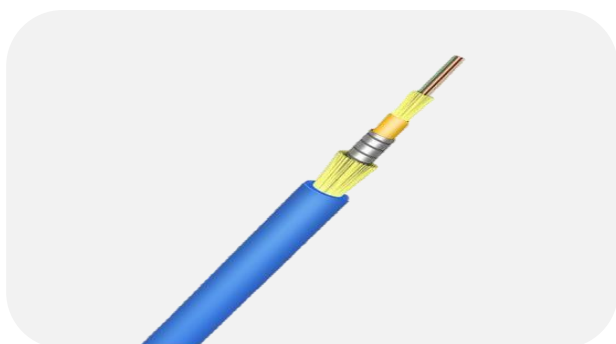
Aerial Cables are for outside installation on poles where consideration must be given to continual tension from the cable weight as well as wind and ice loads. It can be helically lashed to a messenger or another cable. Self-supporting cables use special hardware to handle the installed tension on the cables caused by the weight of the cables and environmental factors like wind.

Indoor/Outdoor Cables

Single-Armored, Plenum, Tight Buffered Distribution Indoor/Outdoor Cable

Tight buffered fibers are positioned in a flexible metal tube, which is filled with aramid yarn strength members within inner jacket for ensuring excellent tensile strength and flexibility. Over the tube, there are aramid yarns and outer jacket to provide crucial protection for fiber. The cables are very suitable for indoor or outdoor applications in customer premises, central offices and in harsh environments.

Single-Armored Tight Buffered



Inner Structure - ATBP-SADJ-OS2-6FP



Features and Benefits

- High impact and crush resistance
- Easy to strip, easy handling and termination
- Jacket is UV, fungus, and moisture resistant
- Excellent mechanical property and environment property
- Aramid yarns provide excellent tensile strength and flexibility
- Stainless steel tube armor for high crush and rodent resistance

Application

- Ducts & conduits application
- CATV, LAN, WAN and FTTX cabling
- Environments requiring extra protection
- Riser and general horizontal applications
- Direct connection to terminal equipments
- Inter building and intrabuilding voice or data networks

Technical Specification

| Parameter | Unit | Life Cycle | 4F | 6F | 8F | 12F |
|---------------------------------|---------|------------|------|------|------|------|
| Minimum Tensile Strength | N | short term | 600 | 600 | 600 | 600 |
| | | long term | 300 | 300 | 300 | 300 |
| Minimum Crush Load | N/100mm | short term | 5000 | 5000 | 5000 | 5000 |
| | | long term | 3000 | 3000 | 3000 | 3000 |
| Minimum Bending Radius | MM | Min | 20D | 20D | 20D | 20D |
| | | Max | 10D | 10D | 10D | 10D |
| Storage Temperature | °C | -40 to +80 | | | | |

Optical Characteristic

| Parameter | Unit | G.652 | | 50/125μm | | 62.5/125μm | |
|---------------------------------|-------------------------|--------|-------|-------------|-------|-------------|------|
| Attenuation | dB/km | 1310nm | ≤0.36 | 850nm | ≤3.0 | 850nm | ≤3.0 |
| | | 1550nm | ≤0.22 | 1300nm | ≤1.0 | 1300nm | ≤1.0 |
| Bandwidth | MHz-km | - | - | 850nm | ≥600 | 850nm | ≥200 |
| | | - | - | 1300nm | ≥1200 | 1300nm | ≥600 |
| Numerical Aperture | NA | | | 0.200±0.015 | | 0.275±0.015 | |
| Cable Cut-off Wavelength | λ _{cc} (nm) | ≤1260 | | - | | - | |

Order Information

| Fiber Count | Part Number | Flammability Rating | Cable Diameter (mm) | Weight (kg/km) |
|-------------|-------------|---------------------|---------------------|----------------|
|-------------|-------------|---------------------|---------------------|----------------|

Singlemode 9/125 OS2

| | | | | |
|-----|--------------------|--------|-----|----|
| 4F | ATBP-SADJ-OS2-4FP | Plenum | 5.0 | 35 |
| 6F | ATBP-SADJ-OS2-6FP | Plenum | 6.0 | 55 |
| 8F | ATBP-SADJ-OS2-8FP | Plenum | 6.0 | 55 |
| 12F | ATBP-SADJ-OS2-12FP | Plenum | 7.0 | 75 |

Multimode 62.5/125 OM1

| | | | | |
|-----|--------------------|--------|-----|----|
| 4F | ATBP-SADJ-OM1-4FP | Plenum | 5.0 | 35 |
| 6F | ATBP-SADJ-OM1-6FP | Plenum | 6.0 | 55 |
| 8F | ATBP-SADJ-OM1-8FP | Plenum | 6.0 | 55 |
| 12F | ATBP-SADJ-OM1-12FP | Plenum | 7.0 | 75 |

Multimode 50/125 OM2

| | | | | |
|-----|--------------------|--------|-----|----|
| 4F | ATBP-SADJ-OM2-4FP | Plenum | 5.0 | 35 |
| 6F | ATBP-SADJ-OM2-6FP | Plenum | 6.0 | 55 |
| 8F | ATBP-SADJ-OM2-8FP | Plenum | 6.0 | 55 |
| 12F | ATBP-SADJ-OM2-12FP | Plenum | 7.0 | 75 |

Multimode 50/125 OM3

| | | | | |
|-----|--------------------|--------|-----|----|
| 4F | ATBP-SADJ-OM3-4FP | Plenum | 5.0 | 35 |
| 6F | ATBP-SADJ-OM3-6FP | Plenum | 6.0 | 55 |
| 8F | ATBP-SADJ-OM3-8FP | Plenum | 6.0 | 55 |
| 12F | ATBP-SADJ-OM3-12FP | Plenum | 7.0 | 75 |

Order Information

Multimode 50/125 OM4

| | | | | |
|------------|--------------------|--------|-----|----|
| 4F | ATBP-SADJ-OM4-4FP | Plenum | 5.0 | 35 |
| 6F | ATBP-SADJ-OM4-6FP | Plenum | 6.0 | 55 |
| 8F | ATBP-SADJ-OM4-8FP | Plenum | 6.0 | 55 |
| 12F | ATBP-SADJ-OM4-12FP | Plenum | 7.0 | 75 |

| Fiber Count | Part Number | Flammability Rating | Cable Diameter (mm) | Weight (kg/km) |
|-------------|-------------|---------------------|---------------------|----------------|
|-------------|-------------|---------------------|---------------------|----------------|

Singlemode 9/125 OS2

| | | | | |
|------------|--------------------|------|-----|----|
| 4F | ATBL-SADJ-OS2-4FL | LSZH | 5.0 | 35 |
| 6F | ATBL-SADJ-OS2-6FL | LSZH | 6.0 | 55 |
| 8F | ATBL-SADJ-OS2-8FL | LSZH | 6.0 | 55 |
| 12F | ATBL-SADJ-OS2-12FL | LSZH | 7.0 | 75 |

Multimode 62.5/125 OM1

| | | | | |
|------------|---------------------|------|-----|----|
| 4F | ATBL-SADJ-OM1-4FL | LSZH | 5.0 | 35 |
| 6F | ATBL-SADJ-OM1-6FL | LSZH | 6.0 | 55 |
| 8F | ATBL-SADJ-OM1-8FL | LSZH | 6.0 | 55 |
| 12F | ATBL-SADJ-OM1- 12FL | LSZH | 7.0 | 75 |

Multimode 50/125 OM2

| | | | | |
|------------|--------------------|------|-----|----|
| 4F | ATBL-SADJ-OM2-4FL | LSZH | 5.0 | 35 |
| 6F | ATBL-SADJ-OM2-6FL | LSZH | 6.0 | 55 |
| 8F | ATBL-SADJ-OM2-8FL | LSZH | 6.0 | 55 |
| 12F | ATBL-SADJ-OM3-12FL | LSZH | 7.0 | 75 |

Order Information

Multimode 50/125 OM3

| | | | | |
|------------|--------------------|------|-----|----|
| 4F | ATBL-SADJ-OM3-4FL | LSZH | 5.0 | 35 |
| 6F | ATBL-SADJ-OM3-6FL | LSZH | 6.0 | 55 |
| 8F | ATBL-SADJ-OM3-8FL | LSZH | 6.0 | 55 |
| 12F | ATBL-SADJ-OM3-12FL | LSZH | 7.0 | 75 |

Multimode 50/125 OM4

| | | | | |
|------------|--------------------|------|-----|----|
| 4F | ATBL-SADJ-OM4-4FL | LSZH | 5.0 | 35 |
| 6F | ATBL-SADJ-OM4-6FL | LSZH | 6.0 | 55 |
| 8F | ATBL-SADJ-OM4-8FL | LSZH | 6.0 | 55 |
| 12F | ATBL-SADJ-OM4-12FL | LSZH | 7.0 | 75 |



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