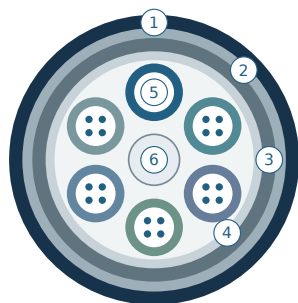


# Duct & direct-burial cables

Stranded loose-tube outdoor cables with protective layers selected for duct or direct-burial installation. Compare the complete construction rather than the model name alone.



GYTA53

Schematic cross-section - not to scale

- 1. Outer PE sheath
- 2. Steel tape protection
- 3. Inner PE sheath
- 4. Aluminum moisture barrier
- 5. Loose tubes and filling compound
- 6. Central metal strength member

Component sizes and fiber count depend on the selected construction. Diagram is not to scale.

| Model              | Construction / application                                                                                                                                               |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GYTA               | Gel-filled stranded loose tubes and a metallic central strength member; aluminum moisture barrier bonded to a PE sheath. An option for duct and outdoor routing.         |
| GYTS               | Gel-filled stranded loose tubes and a metallic central strength member; steel-tape protective layer bonded to a PE sheath. Select to suit the required mechanical loads. |
| GYTA53             | Aluminum moisture barrier and inner PE sheath, plus steel tape and outer PE sheath. A double-sheath construction for direct-burial installation.                         |
| Performance inputs | Confirm tensile/crush limits, pulling conditions, water-blocking method, bend radii, temperature range and required test methods for the selected construction.          |

## Selection notes

Published reference bands cover 2-288F. Rodent/termite protection and flame-retardant designs are customized requirements; armor alone does not establish certified resistance. Agreed test methods and reports must match the final design.

For a quotation: model, route, fiber count/type, pulling/crush requirements, quantity, reel length and destination port.

See page 2 for the checked reference tables. Request the order datasheet for final construction, tolerances and agreed tests.

# Duct / burial reference dimensions by fiber band

Each model cell shows **typical diameter (mm) / reference cable weight (kg/km)**. Original fiber-count bands are retained; no per-core interpolation is implied. Public tables checked on 7 October 2026.

| Fiber band (F) | GYTA dia. / wt. | GYTS dia. / wt. | GYTA53 dia. / wt. |
|----------------|-----------------|-----------------|-------------------|
| 2-30           | 9.0 / 74        | 9.0 / 85        | 13.1 / 173        |
| 32-36          | 9.7 / 97        | 9.7 / 110       | 13.1 / 175        |
| 38-60          | 9.7 / 87        | 9.7 / 100       | 13.8 / 189        |
| 62-72          | 10.4 / 108      | 10.4 / 122      | 13.8 / 190        |
| 74-84          | 11.3 / 120      | 11.3 / 136      | 14.7 / 216        |
| 86-96          | 12.0 / 131      | 12.0 / 149      | 15.4 / 232        |
| 98-108         | 12.7 / 145      | 12.7 / 164      | 16.1 / 250        |
| 110-120        | 13.4 / 159      | 13.4 / 180      | 16.8 / 269        |
| 122-132        | 14.0 / 172      | 14.0 / 194      | 17.4 / 290        |
| 134-144        | 14.8 / 190      | 14.8 / 212      | 18.2 / 314        |
| 146-216        | 14.7 / 202      | 14.7 / 225      | 17.9 / 311        |
| 218-288        | 16.7 / 255      | 16.7 / 282      | 20.1 / 378        |

## Mechanical values: the same published designs

| Model       | Tension LT / ST (N) | Crush LT / ST (N) | Bend static / dynamic |
|-------------|---------------------|-------------------|-----------------------|
| GYTA / GYTS | 600 / 1500          | 300 / 1000        | 10D / 20D             |
| GYTA53      | 1000 / 3000         | 1000 / 3000       | 12.5D / 25D           |

D = cable outer diameter; LT / ST = long / short term. Values apply to the listed reference constructions. Crush loads are reproduced in N as published; confirm test length and method before engineering comparisons or acceptance testing.

**Typical reference values, not guaranteed order values.** A fiber-count band can share a nominal diameter and reference weight. This does not mean every fiber count has identical measured weight. Final dimensions, weight, tolerances and mechanical limits are confirmed in the agreed order datasheet.

## Source references - checked 7 October 2026

Public reference: GYTA construction

Public reference: GYTS construction and reference values

Public reference: GYTA53 construction and reference values