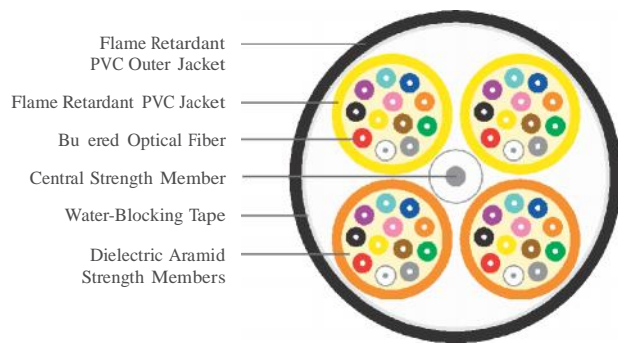


hybrid

Premises Fiber OFNR/OFNP



Specifications

| | |
|----------------------------|---|
| Tight Buffer Configuration | Flexible tight buffer material extruded over the fiber to a diameter of 900 µm for use with standard connectors; dielectric aramid yarns are applied for additional strength and covered with a flame retardant PVC jacket |
| Fiber Configuration | Single mode fibers are placed first in the color sequence, followed by multimode fibers |
| Outer Jacket | Premises: Flame retardant (FR), chemical resistant PVC Indoor/Outdoor: Black, FR, chemical resistant and sunlight resistant PVC |
| Performance Compliance | UL 1651 CSA C22.2 No. 232 UL 1666 NFPA 262 Telcordia GR-409-CORE, Issue 1 Premises: Telcordia GR-409-CORE, Issue 2 and ANSI/ICEA S-83-596 Indoor/Outdoor: Telcordia GR-20-CORE, Issue 3 and ANSI/ICEA S-104-696 ANSI/TIA-568-C.3 RoHS-compliant |
| NRTL Programs | UL, c(UL) Listed OFNR UL, c(UL) Listed OFNP |

Environmental Specifications

| | |
|------------------|----------------|
| Operation | -40°C to +75°C |
| Storage/Shipping | -40°C to +75°C |
| Installation | -20°C to +65°C |

Single Mode Optical Fiber Types

| | Reduced Water Peak | TeraFlex® Bend Resistant | |
|-------------------------|--------------------|--------------------------|-------------------|
| | | G.657.A1 | G.657.A2 G.657.B3 |
| Premises Jacket Colors* | Yellow | | |
| I/O Jacket Color | Black | | |

Multimode Optical Fiber Types

| | TeraGain® 62.5/125 | TeraGain Laser Optimized 50/125 | | TeraFlex Bend Resistant Laser Optimized 50/125 | |
|-------------------------|--------------------|---------------------------------|---------|--|-----------------|
| | | 10G/150 | 10G/300 | 10G/150 | 10G/300 10G/550 |
| Premises Jacket Colors* | Orange | Aqua | | | |
| I/O Jacket Color | Black | Black | | | |

Product Description

Grupo Matel offers a broad line of products including multimode and single mode fibers within the same optical fiber cable. The use of hybrid fiber designs have proven useful to network systems designers because they offer the flexibility to run diverse applications upgrades without the need to install new cables. Grupo Matel hybrid optical fiber cables are available in stranded tight buffer premises distribution cables, as well as all other loose tube cable product designs. Hybrid cables are used for standard campus networking applications and can be manufactured with a wide variety of fiber type combinations. They will save the designer and the customer significant costs over the lifetime of the physical cable plant.

Single mode fibers are assigned first in the color and/or sub-unit scheme. Multimode fibers are assigned remaining colors and/or sub-units.

Applications

- Intrabuilding backbones
- Interbuilding backbone (in conduit)
- Conduit pathways
- Service entrance to communication closets

Features

- Telcordia GR-409-CORE and GR-20-CORE qualified designs
- TeraGain® multimode and single mode under one jacket
- Compliant with ANSI/TIA-568-C.3
- Design options include: interlock armored, indoor/outdoor, tight buffered riser and plenum
- Subunits are color coded according to fiber type

Benefits

- Most cost-effective cables for the varied applications
- Eliminates the need for additional pathway space for different cable types
- Assures compliance for all current networking applications
- Cable designs available for every application
- Easily identify fiber type

Part Numbers and Physical Characteristics

| Listing | Part Number | Configuration | Fiber Type and Fiber Count | | | Nominal | | Maximum Tensile Loading | | Minimum Bend Radius | | Package |
|------------------------------------|-------------|---------------|----------------------------|--------------------|------------------|------------------|--------------------------------|-------------------------|-------------------|---------------------|-------------------|---------|
| | | | RWP SMF | TeraGain® 62.5/125 | TeraGain 10G/300 | Diameter in (mm) | Nominal Weight lbs/kft (kg/km) | Install lbs (N) | Long Term lbs (N) | Install in (mm) | Long Term in (mm) | |
| Premises Distribution | | | | | | | | | | | | |
| OFNR | 143008HGA1 | Single unit | 4 | - | 4 | 0.24 (6.0) | 20 (30) | 150 (660) | 45 (200) | 3.5 (90) | 2.4 (60) | Reel |
| OFNR | 143012HGA1 | Single unit | 6 | 6 | - | 0.26 (6.5) | 25 (37) | 150 (660) | 45 (200) | 3.8 (98) | 2.6 (65) | Reel |
| OFNR | 143012HGC1 | Single unit | 6 | - | 6 | 0.26 (6.5) | 25 (37) | 150 (660) | 45 (200) | 3.8 (98) | 2.6 (65) | Reel |
| OFNR | 143024HK1Q | Single unit | 12 | 12 | - | 0.33 (8.5) | 44 (66) | 300 (1,320) | 90 (400) | 5.0 (128) | 3.3 (85) | Reel |
| OFNR | 143024HKB1 | Single unit | 12 | - | 12 | 0.33 (8.5) | 44 (66) | 300 (1,320) | 90 (400) | 5.0 (128) | 3.3 (85) | Reel |
| OFNP | 144008HGA1 | Single unit | 2 | 6 | - | 0.21 (5.4) | 19 (28) | 100 (440) | 30 (130) | 3.2 (81) | 2.1 (54) | Reel |
| OFNP | 144008HGB1 | Single unit | 4 | - | 4 | 0.21 (5.4) | 19 (28) | 100 (440) | 30 (130) | 3.2 (81) | 2.1 (54) | Reel |
| OFNP | 144012HGA1 | Single unit | 6 | 6 | - | 0.24 (6.2) | 24 (35) | 100 (440) | 30 (130) | 3.7 (93) | 2.4 (62) | Reel |
| OFNP | 144012HGC1 | Single unit | 6 | - | 6 | 0.24 (6.2) | 24 (35) | 100 (440) | 30 (130) | 3.7 (93) | 2.4 (62) | Reel |
| OFNP | 144012HKA1 | Single unit | 6 | - | 6 | 0.24 (6.2) | 24 (35) | 100 (440) | 30 (130) | 3.7 (93) | 2.4 (62) | Reel |
| OFNP | 144024HKA1 | Single unit | 12 | 12 | - | 0.31 (7.8) | 42 (62) | 300 (1,320) | 90 (400) | 4.6 (117) | 3.1 (78) | Reel |
| OFNR | 143018HGA1 | Multi-unit | 6 | 12 | - | 0.54 (13.7) | 96 (143) | 300 (1,320) | 90 (400) | 8.1 (206) | 5.4 (137) | Reel |
| OFNR | 143024HGA1 | Multi-unit | 12 | 12 | - | 0.57 (14.6) | 117 (174) | 300 (1,320) | 90 (400) | 8.6 (218) | 5.7 (146) | Reel |
| OFNR | 143024HGB1 | Multi-unit | 6 | 18 | - | 0.57 (14.6) | 117 (174) | 300 (1,320) | 90 (400) | 8.6 (218) | 5.7 (146) | Reel |
| OFNR | 143036HG01 | Multi-unit | 12 | 24 | - | 0.68 (17.4) | 171 (255) | 300 (1,320) | 90 (400) | 10.2 (260) | 6.8 (174) | Reel |
| OFNR | 143036HGB1 | Multi-unit | 24 | 12 | - | 0.68 (17.4) | 171 (255) | 300 (1,320) | 90 (400) | 10.2 (260) | 6.8 (174) | Reel |
| OFNR | 143036HGC1 | Multi-unit | 18 | 18 | - | 0.68 (17.4) | 171 (255) | 300 (1,320) | 90 (400) | 10.2 (260) | 6.8 (174) | Reel |
| OFNR | 143048HGB1 | Multi-unit | 24 | 24 | - | 0.69 (17.5) | 155 (232) | 300 (1,320) | 90 (400) | 10.3 (262) | 6.9 (175) | Reel |
| OFNR | 143048HGD1 | Multi-unit | 12 | 36 | - | 0.69 (17.5) | 155 (232) | 300 (1,320) | 90 (400) | 10.3 (262) | 6.9 (175) | Reel |
| OFNR | 143048HGC1 | Multi-unit | 24 | - | 24 | 0.69 (17.5) | 155 (232) | 300 (1,320) | 90 (400) | 10.3 (262) | 6.9 (175) | Reel |
| OFNR | 143060HGA1 | Multi-unit | 12 | 48 | - | 0.77 (19.5) | 195 (291) | 300 (1,320) | 90 (400) | 11.5 (292) | 7.7 (195) | Reel |
| OFNR | 143060HGC1 | Multi-unit | 24 | 36 | - | 0.77 (19.5) | 195 (291) | 300 (1,320) | 90 (400) | 11.5 (292) | 7.7 (195) | Reel |
| OFNR | 143072HGA1 | Multi-unit | 24 | 48 | - | 0.82 (21.0) | 233 (348) | 300 (1,320) | 90 (400) | 12.4 (314) | 8.2 (210) | Reel |
| OFNR | 143072HGC1 | Multi-unit | 36 | 36 | - | 0.82 (21.0) | 233 (348) | 300 (1,320) | 90 (400) | 12.4 (314) | 8.2 (210) | Reel |
| OFNR | 143096HGA1 | Multi-unit | 48 | - | 48 | 0.97 (24.7) | 337 (503) | 300 (1,320) | 90 (400) | 14.6 (370) | 9.7 (247) | Reel |
| OFNP | 144018HGA1 | Multi-unit | 6 | 12 | - | 0.54 (13.8) | 117 (175) | 150 (660) | 45 (200) | 8.1 (206) | 5.4 (138) | Reel |
| OFNP | 144024HGC1 | Multi-unit | 12 | 12 | - | 0.57 (14.6) | 141 (211) | 150 (660) | 45 (200) | 8.6 (219) | 5.7 (146) | Reel |
| OFNP | 144024HGD1 | Multi-unit | 6 | 18 | - | 0.57 (14.6) | 141 (211) | 150 (660) | 45 (200) | 8.6 (219) | 5.7 (146) | Reel |
| OFNP | 144024HGG1 | Multi-unit | 12 | - | 12 | 0.57 (14.6) | 141 (211) | 150 (660) | 45 (200) | 8.6 (219) | 5.7 (146) | Reel |
| OFNP | 144036HGA1 | Multi-unit | 12 | 24 | - | 0.69 (17.4) | 206 (307) | 150 (660) | 45 (200) | 10.3 (261) | 6.9 (174) | Reel |
| OFNP | 144036HGC1 | Multi-unit | 18 | 18 | - | 0.69 (17.4) | 206 (307) | 150 (660) | 45 (200) | 10.3 (261) | 6.9 (174) | Reel |
| OFNP | 144048HGA1 | Multi-unit | 12 | 36 | - | 0.67 (17.1) | 184 (275) | 150 (660) | 45 (200) | 10.1 (257) | 6.7 (171) | Reel |
| OFNP | 144048HGC1 | Multi-unit | 24 | 24 | - | 0.67 (17.1) | 184 (275) | 150 (660) | 45 (200) | 10.1 (257) | 6.7 (171) | Reel |
| OFNP | 144060HGA1 | Multi-unit | 12 | 48 | - | 0.74 (18.9) | 229 (341) | 150 (660) | 45 (200) | 11.2 (284) | 7.4 (189) | Reel |
| OFNP | 144060HGC1 | Multi-unit | 24 | 36 | - | 0.74 (18.9) | 229 (341) | 150 (660) | 45 (200) | 11.2 (284) | 7.4 (189) | Reel |
| OFNP | 144072HGA1 | Multi-unit | 24 | 48 | - | 0.81 (20.6) | 276 (412) | 150 (660) | 45 (200) | 12.2 (309) | 8.1 (206) | Reel |
| OFNP | 144072HGC1 | Multi-unit | 36 | 36 | - | 0.81 (20.6) | 276 (412) | 150 (660) | 45 (200) | 12.2 (309) | 8.1 (206) | Reel |
| Indoor/Outdoor Tight Buffer | | | | | | | | | | | | |
| OFNR | 1W3012HGB1 | Single unit | 6 | 6 | - | 0.26 (6.5) | 25 (38) | 300 (1,335) | 90 (400) | 3.8 (97) | 2.6 (65) | Reel |
| OFNR | 1W3012HGD1 | Single unit | 6 | - | 6 | 0.26 (6.5) | 25 (38) | 300 (1,335) | 90 (400) | 3.8 (97) | 2.6 (65) | Reel |
| OFNR | 1W3018HGA1 | Multi-unit | 6 | 12 | - | 0.55 (14.1) | 102 (152) | 600 (2,640) | 180 (800) | 8.3 (211) | 5.5 (141) | Reel |
| OFNR | 1W3024HGA1 | Multi-unit | 6 | 18 | - | 0.59 (14.9) | 123 (184) | 600 (2,640) | 180 (800) | 8.8 (224) | 5.9 (149) | Reel |
| OFNR | 1W3024HGC1 | Multi-unit | 12 | 12 | - | 0.59 (14.9) | 123 (184) | 600 (2,640) | 180 (800) | 8.8 (224) | 5.9 (149) | Reel |
| OFNR | 1W3024HGE1 | Multi-unit | 12 | - | 12 | 0.59 (14.9) | 123 (184) | 600 (2,640) | 180 (800) | 8.8 (224) | 5.9 (149) | Reel |
| OFNR | 1W3036HGA1 | Multi-unit | 12 | 24 | - | 0.70 (17.7) | 179 (267) | 600 (2,640) | 180 (800) | 10.5 (266) | 7.0 (177) | Reel |
| OFNR | 1W3036HGC1 | Multi-unit | 18 | 18 | - | 0.70 (17.7) | 179 (267) | 600 (2,640) | 180 (800) | 10.5 (266) | 7.0 (177) | Reel |
| OFNR | 1W3036HGE1 | Multi-unit | 24 | 12 | - | 0.70 (17.7) | 179 (267) | 600 (2,640) | 180 (800) | 10.5 (266) | 7.0 (177) | Reel |
| OFNR | 1W3048HGE1 | Multi-unit | 12 | 36 | - | 0.70 (17.8) | 162 (242) | 600 (2,640) | 180 (800) | 10.5 (267) | 7.0 (178) | Reel |
| OFNR | 1W3048HGC1 | Multi-unit | 24 | 24 | - | 0.70 (17.8) | 162 (242) | 600 (2,640) | 180 (800) | 10.5 (267) | 7.0 (178) | Reel |
| OFNR | 1W3048HGB1 | Multi-unit | 24 | - | 24 | 0.70 (17.8) | 162 (242) | 600 (2,640) | 180 (800) | 10.5 (267) | 7.0 (178) | Reel |
| OFNR | 1W3060HGA1 | Multi-unit | 12 | 48 | - | 0.78 (19.8) | 204 (304) | 600 (2,640) | 180 (800) | 11.7 (297) | 7.8 (198) | Reel |
| OFNR | 1W3072HGA1 | Multi-unit | 24 | 48 | - | 0.84 (21.3) | 243 (362) | 600 (2,640) | 180 (800) | 12.6 (320) | 8.4 (213) | Reel |
| OFNR | 1W3072HGC1 | Multi-unit | 36 | 36 | - | 0.84 (21.3) | 243 (362) | 600 (2,640) | 180 (800) | 12.6 (320) | 8.4 (213) | Reel |
| OFNR | 1W3096HGA1 | Multi-unit | 48 | 48 | - | 0.98 (25.0) | 345 (515) | 600 (2,640) | 180 (800) | 14.8 (375) | 9.8 (250) | Reel |
| OFNR | 1W3096HGB1 | Multi-unit | 48 | - | 48 | 0.98 (25.0) | 345 (515) | 600 (2,640) | 180 (800) | 14.8 (375) | 9.8 (250) | Reel |
| OFNR | 1W3144HGC1 | Multi-unit | 72 | 72 | - | 1.11 (28.3) | 375 (559) | 600 (2,640) | 180 (800) | 16.7 (425) | 11.1 (283) | Reel |