



ANALOG

600 SERIES

AUDIO

OPEN REEL AUDIO TAPE

THE INDUSTRY STANDARD FOR
LOW-COST, NON-BACKCOATED
ANALOG OPEN REEL APPLICATIONS

PRODUCT OVERVIEW

Quantegy's 600 series offers a low noise/high output tape with improved capabilities over standard output products. The lower noise and higher output provide an improved signal-to-noise ratio. An exceptionally smooth recording surface, the result of the Quantegy Ferrosheen™ process, enhances close head-to-tape contact and allows improved high frequency response. Special attention is given during manufacture to maintain uniformity within each batch and between batches to meet the consistency needs of demanding users. Extra care is given to slitting and winding to assure smooth handling at all winding speeds.

PRODUCT FEATURES

- Low noise/high output formulation
- Clean-running performance with uniform winding properties
- Balanced frequency response
- Highly durable oxide formulation and binder
- Fully protective packaging



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600 TECHNICAL DATA

| | Unit | Typical Values: | | | |
|-----------------------------------|-----------|-----------------|-------------|-------------|-------------|
| | | 632 | 642 | 652 | 661 |
| Magnetic Properties | | | | | |
| Coercivity | Oe (kA/m) | 310 (24.7) | 310 (24.7) | 310 (24.7) | 310 (24.7) |
| Retentivity | Gs (mT) | 1100 (110) | 1100 (110) | 1100 (110) | 1100 (110) |
| Physical Properties | | | | | |
| Standard Width | in (mm) | 0.246 (6.3) | 0.246 (6.3) | 0.246 (6.3) | 0.246 (6.3) |
| Nominal Thickness: | | | | | |
| Base Film | μ" (μm) | 1420 (36.0) | 880 (22.4) | 480 (12.2) | 480 (12.2) |
| Oxide Coating | μ" (μm) | 310 (7.9) | 310 (7.8) | 310 (7.8) | 220 (5.6) |
| Total | μ" (μm) | 1730 (43.9) | 1190 (30.2) | 790 (20.0) | 700 (17.8) |
| Performance Properties | | | | | |
| Bias Sensitivity @ 500 Hz | dB | 0.0 | 0.0 | 0.0 | -1.2 |
| Record Sensitivity @ 500 Hz | dB | 0.0 | 0.0 | 0.0 | 0.0 |
| Third Harmonic Distortion | | | | | |
| Reference Record Level | % | 0.75 | 0.75 | 0.75 | 3.5 |
| Output Sensitivity: | | | | | |
| 100 Hz | dB | 0.0 | 0.0 | 0.0 | -2.0 |
| 500 Hz | dB | -0.5 | -0.5 | -0.5 | -2.5 |
| 7500 Hz | dB | -0.5 | -0.5 | -0.5 | -1.5 |
| 15000 Hz | dB | -0.5 | -0.5 | -0.5 | +0.5 |
| Saturated Output: | | | | | |
| 500 Hz | dB | -1.5 | -1.5 | -1.5 | -6.5 |
| 15000 Hz | dB | -1.0 | -1.0 | -1.0 | +0.5 |
| Relative Weighted Noise with Bias | dB | +1.3 | +1.3 | +1.3 | 0.0 |
| Print-through | dB | 57.0 | 55.0 | 49.0 | 49.0 |
| Signal-to-noise | dB | +2.0 | +2.0 | -1.5 | -6.0 |

600 CONFIGURATIONS

| Catalog Number | Description | Reel Size | | Tape Length | | Carton Weight | | Carton Quantity |
|--|--|-------------|------------|-------------|--------|---------------|-------|-----------------|
| | | Inches | mms | Feet | Meters | Lbs / Kgs | | |
| 632 Professional—Low Noise, High Output, 1.5 MIL | | | | | | | | |
| 632-131111 | .25" X 600', 5" plastic reel, setup box | .25 x 5 | 6.25 x 130 | 600 | 183 | 14.5 | 6.57 | 40 |
| 632-151111 | .25" X 1200', 7" plastic reel, setup box | .25 x 7 | 6.25 x 180 | 1200 | 366 | 32.3 | 14.66 | 40 |
| 632-173111 | .25" X 2500', 10.5" NAB reel, setup box | .25 x 10.5 | 6.25 x 270 | 2500 | 762 | 22.8 | 10.36 | 10 |
| 632-17611T | .25" X 2500', pancake, tray pack | hub | hub | 2500 | 762 | 10.0 | 4.53 | 10 |
| 632-19611T | .25" X 5000', pancake, tray pack | hub | hub | 5000 | 1526 | 18.7 | 8.50 | 10 |
| 642 Professional—Low Noise, High Output, 1.0 MIL Polyester | | | | | | | | |
| 642-151111 | .25" X 1800', 7" plastic reel, setup box | .25 x 7 | 6.25 x 180 | 1800 | 569 | 33.7 | 15.30 | 40 |
| 642-173111 | .25" X 3600', 10.5" NAB reel, setup box | .25 x 10.5 | 6.25 x 270 | 3600 | 1097 | 23.5 | 10.65 | 10 |
| 642-17611T | .25" X 3600', pancake, tray pack | .25 nab hub | 6.25 hub | 3600 | 1097 | 10.5 | 4.77 | 10 |
| 642-19611T | .25" X 7200', pancake, tray pack | .5 nab hub | 6.25 hub | 7200 | 2196 | 19.1 | 8.67 | 10 |
| 652 Professional—Low Noise, High Output, 0.5 MIL Polyester | | | | | | | | |
| 652-1311H1 | .25" X 1200', 5" plastic reel, setup box | .25 x 5 | 6.25 x 130 | 1200 | 366 | 16.2 | 7.36 | 40 |
| 652-151111 | .25" X 2400', 7" plastic reel, setup box | .25 x 7 | 6.25 x 180 | 1800 | 569 | 32.6 | 14.8 | 40 |
| 652-17691T | .25" X 7200', 7" pancake, tray pack | .25 nab hub | 6.25 hub | 7200 | 2196 | 13.2 | 6.00 | 10 |
| 652-27291T | .25" X 7200', 7" pancake, tray pack | .5 hub | 12.5 hub | 7200 | 2196 | 18.4 | 8.38 | 07 |
| 661 Professional—0.5 MIL Polyester, 0.2 MIL Oxide Thickness | | | | | | | | |
| 661-131111 | .25" X 1800', 5" plastic reel, setup box | .25 x 5 | 6.25 x 130 | 1800 | 569 | 15.8 | 7.15 | 40 |
| 661-151111 | .25" X 3600', 7" plastic reel, setup box | .25 x 7 | 6.25 x 180 | 3600 | 1097 | 36.5 | 15.63 | 40 |

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