

Working distances for common Belden SDI cables:

Estimated Transmission Distance at Serial Data Rates

The distances listed below are estimates based upon the cable loss values (excluding connectors or connectivity) in the SMPTE standards lists. Belden cannot guarantee these distance will be obtained due to variations in the equipment used.

The manufacturer of the equipment used should be contacted to determine what distance can be expected with the cable intended to be used.

| Data Rate: | 143 Mb/s | | 177 Mb/s | | 270 Mb/s | | 360 Mb/s | | 1.5 Gb/s | | 3.0 Gb/s | | 3 Gb/s | | 6 Gb/s | | 12 Gb/s | |
|-------------------------------|-------------------------|-----|------------------------|-----|------------------|-----|-------------------|-----|--------------|-----|--------------|-----|--|-----|---|-----|---|-----|
| | SMPTE ST 259 | | SMPTE ST 259 | | SMPTE ST 259 | | SMPTE ST 259 | | SMPTE ST 292 | | SMPTE ST 424 | | SMPTE ST 425-4 (3Gb/s - stereo) ST 2081-1 (6 Gb/s - dual link) ST 2082-1 (12 Gb/s - quad) ST 2083-1 (24 Gb/s - octal link) ¹ | | ST 2081-1 (6 Gb/s - single link) ST 2082-1 (12 Gb/s - dual link) ST 2083-1 (24 Gb/s - quad link) ¹ | | ST 2082-1 (12 Gb/s - single link) ST 2083-1 (24 Gb/s - dual link) ¹ | |
| Spec: | SMPTE ST 259 | | SMPTE ST 259 | | SMPTE ST 259 | | SMPTE ST 259 | | SMPTE ST 292 | | SMPTE ST 424 | | UHDTV1, UHDTV2 | | UHDTV1, UHDTV2 | | UHDTV1, UHDTV2 | |
| Application: | Composite SD-SDI (NTSC) | | Composite SD-SDI (PAL) | | Component SD-SDI | | Widescreen SD-SDI | | HD 1.5G-SDI | | HD 3G-SDI | | UHDTV1, UHDTV2 | | UHDTV1, UHDTV2 | | UHDTV1, UHDTV2 | |
| Cable Part Number | FL | m | FL | m | FL | m | FL | m | FL | m | FL | m | FL | m | FL | m | FL | m |
| 179DT | 551 | 168 | 502 | 153 | 417 | 127 | 384 | 111 | 117 | 36 | 82 | 25 | 164 | 50 | 114 | 35 | | |
| 1865A | 686 | 209 | 627 | 191 | 508 | 155 | 441 | 134 | 134 | 41 | 90 | 27 | 179 | 55 | | | | |
| 1855A ¹ | 1027 | 313 | 941 | 287 | 775 | 236 | 678 | 207 | 215 | 66 | 151 | 46 | 302 | 92 | 207 | 63 | | |
| 1855P | 1004 | 306 | 918 | 280 | 748 | 228 | 649 | 198 | 196 | 60 | 131 | 40 | 262 | 80 | 174 | 53 | | |
| 4855R ² / 4855ANH | 1068 | 325 | 988 | 295 | 800 | 244 | 694 | 212 | 221 | 67 | 155 | 47 | 310 | 94 | 215 | 66 | 149 | 45 |
| 4855P | 978 | 297 | 885 | 270 | 728 | 221 | 631 | 192 | 193 | 59 | 131 | 40 | 262 | 80 | 177 | 54 | 118 | 36 |
| 1505A ³ | 1500 | 457 | 1381 | 421 | 1127 | 344 | 975 | 297 | 304 | 93 | 212 | 65 | 425 | 130 | 287 | 87 | | |
| 1506A ⁴ | 1372 | 418 | 1260 | 384 | 1017 | 310 | 883 | 269 | 262 | 80 | 175 | 53 | 350 | 107 | 230 | 70 | | |
| 1505F | 1211 | 369 | 1092 | 333 | 864 | 263 | 735 | 224 | 223 | 68 | 150 | 46 | 300 | 91 | 197 | 60 | | |
| 4505R ⁵ / 4505ANH | 1474 | 449 | 1321 | 403 | 1079 | 329 | 942 | 287 | 307 | 94 | 217 | 66 | 433 | 132 | 302 | 92 | 208 | 63 |
| 4505P | 1324 | 404 | 1200 | 366 | 986 | 301 | 858 | 262 | 263 | 80 | 177 | 54 | 354 | 108 | 235 | 72 | 155 | 47 |
| 1694A ⁶ | 1846 | 563 | 1681 | 512 | 1376 | 419 | 1203 | 367 | 367 | 112 | 255 | 78 | 509 | 155 | 340 | 104 | | |
| 1695A ⁷ | 1792 | 546 | 1625 | 495 | 1319 | 402 | 1134 | 346 | 327 | 100 | 215 | 66 | 430 | 131 | 280 | 85 | | |
| 1694F | 1490 | 454 | 1340 | 408 | 1043 | 318 | 892 | 272 | 260 | 79 | 174 | 53 | 348 | 106 | 225 | 69 | | |
| 4694R ⁸ / 4694ANH | 1755 | 535 | 1607 | 490 | 1336 | 407 | 1171 | 357 | 383 | 117 | 269 | 82 | 538 | 164 | 374 | 114 | 257 | 78 |
| 4694P | 1704 | 519 | 1535 | 468 | 1259 | 384 | 1095 | 334 | 327 | 100 | 217 | 66 | 433 | 132 | 285 | 87 | 186 | 57 |
| 4694F | 1715 | 523 | 1533 | 467 | 1225 | 373 | 1049 | 320 | 316 | 96 | 213 | 65 | 428 | 130 | 284 | 87 | 184 | 56 |
| 1794A ⁹ | 2427 | 740 | 2224 | 678 | 1799 | 548 | 1559 | 475 | 477 | 145 | 332 | 101 | 664 | 202 | 444 | 135 | | |
| 4794R ¹⁰ / 4794ANH | 2231 | 680 | 2045 | 623 | 1715 | 523 | 1512 | 461 | 494 | 151 | 343 | 105 | 688 | 209 | 471 | 144 | 321 | 98 |
| 4794P | 2148 | 654 | 1935 | 590 | 1570 | 479 | 1352 | 412 | 392 | 119 | 255 | 78 | 510 | 155 | 327 | 100 | 210 | 64 |
| 7731A | 2791 | 851 | 2613 | 796 | 2091 | 637 | 1838 | 560 | 582 | 177 | 390 | 119 | 780 | 238 | 529 | 161 | | |
| 7732A | 2703 | 824 | 2463 | 751 | 1951 | 595 | 1655 | 504 | 461 | 141 | 290 | 88 | 579 | 176 | 370 | 113 | | |
| 4731R / 4731ANH | 2824 | 861 | 2573 | 784 | 2130 | 649 | 1861 | 567 | 598 | 182 | 414 | 126 | 828 | 252 | 566 | 173 | 383 | 117 |
| 4731P | 2605 | 794 | 2342 | 714 | 1913 | 583 | 1646 | 502 | 470 | 143 | 301 | 92 | 603 | 184 | 380 | 116 | 243 | 74 |