



ABHAR CABLE CO.



ISO 9002
Certificate No.
QS-1147HH



Accredited by the
Dutch Council for
Accreditation

AC ABHAR
CABLE



Overhaed cables

Overhead cables are used in rural or semi-urban areas with low housing density. They can be placed on poles, stretched or laid on outer walls.

Overhead cables are insulated conductors and applicable for voltage levels between 1KV to 36KV.

AC produces a wide variety of overhead cables as single core and bunched, with aluminum conductor and XLPE insulation according to international standards.

All **AC** products are designed to meet the strict standards of quality, performance, and functionality, with the ultimate objective of customer s satisfaction.



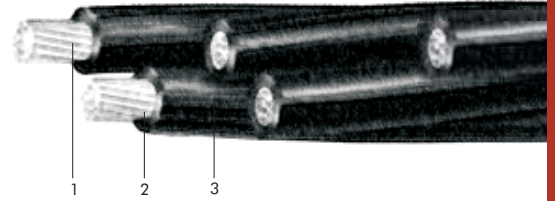
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Al,AA/XLPE *

NFC 33-209

Aluminium conductor,
weather resistant XLPE Insulation



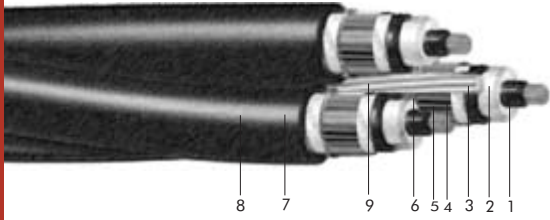
0.6/1(1.2) KV

| Number of Cores & Cross Section mm ² | Insulation Thickness | | Street Lighting mm | Cable Diameter Approx. mm | Total Weight Approx. kg/km |
|--|----------------------|---------------------------|--------------------------|------------------------------------|-------------------------------------|
| | Phases mm | Nule (Messenger) mm | | | |
| 3x 35+54.6+16 RM | 1.6 | 1.6 | 1.2 | 27.5 | 672 |
| 3x 50+54.6+16 RM | 1.6 | 1.6 | 1.2 | 30.5 | 782 |
| 3x 70+54.6+16 RM | 1.8 | 1.6 | 1.2 | 36.2 | 996 |
| 3x 95+70 +16 RM | 1.8 | 1.5 | 1.2 | 40.8 | 1,263 |
| 3x120+70 +16 RM | 1.8 | 1.5 | 1.2 | 44.6 | 1,488 |
| 3x150+70 +16 RM | 1.7 | 1.5 | 1.2 | 47.5 | 1,716 |

1-Stranded circular Aluminum Conductor (Phases) 2-Stranded circular Aluminum- Alloy Conductor (Neutral, Messenger) 3-XLPE Insulation

Maximum conductor temperature: 90°C

* Aerial Bundled conductor cables.



IEC 60502-1 [Al/SC/XLPE/SC/SCT/CWS/Pet/HDPE]+ Messenger*

Wire screened, Three single core,
Medium voltage power cable with
Aluminum conductor and XLPE insulation.

12/20(24) kV

| Number of Cores & Cross Section mm ² | Insulation Thickness mm | Sheath Thickness mm | Cable Diameter Approx. mm | Total Weight Approx. kg/km |
|---|-------------------------|---------------------|---------------------------|----------------------------|
| 3x 50/16+50 RM | 5.5 | 1.8 | 67.2 | 2,908 |
| 3x 70/16+50 RM | 5.5 | 1.9 | 71.3 | 3,249 |
| 3x 95/16+50 RM | 5.5 | 1.9 | 75.0 | 3,605 |
| 3x120/16+70 RM | 5.5 | 2.0 | 78.4 | 4,055 |
| 3x150/25+70 RM | 5.5 | 2.0 | 81.2 | 4,650 |
| 3x185/25+70 RM | 5.5 | 2.1 | 85.5 | 5,146 |

1-Stranded circular Aluminum Conductor 2-Semi-conductive Conductor Screen 3-XLPE Insulation 4-Semi-conductive Insulation Screen 5-Semi-conductive tape 6-Copper wire Screen 7-Polyester tape 8-HDPE sheath 9-High tensile galvanized steel (Messenger)

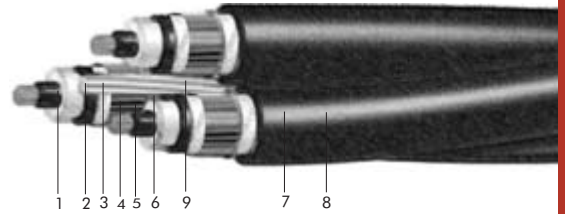
Maximum conductor temperature: 90°C

* Aerial Bundled conductor cables.



[Al/SC/XLPE/SC/SCT/CWS/Pet/HDPE]+Messenger* IEC 60502-1

Wire screened, Three single core,
Medium voltage power cable with
Aluminum conductor and XLPE insulation.



18/30(36) kV

| Number of Cores & Cross Section mm ² | Insulation Thickness mm | Sheath Thickness mm | Cable Diameter Approx. mm | Total Weight Approx. kg/km |
|---|-------------------------|---------------------|---------------------------|----------------------------|
| 3x 50/16+50 RM | 8.0 | 2.0 | 79.1 | 3,633 |
| 3x 70/16+50 RM | 8.0 | 2.0 | 82.5 | 3,982 |
| 3x 95/16+50 RM | 8.0 | 2.1 | 86.6 | 4,412 |
| 3x120/16+70 RM | 8.0 | 2.1 | 89.6 | 4,861 |
| 3x150/25+70 RM | 8.0 | 2.2 | 93.1 | 5,525 |
| 3x185/25+70 RM | 8.0 | 2.2 | 97.0 | 6,027 |

1-Stranded circular Aluminium Conductor 2-Semi-conductive Conductor Screen 3-XLPE Insulation 4-Semi-conductive Insulation Screen 5-Semi-conductive tape 6-Copper wire Screen 7-Polyester tape 8-HDPE sheath 9-High tensile galvanized steel (Messenger)

Maximum conductor temperature: 90°C

* Aerial Bundled conductor cables.

Other related voltage upon request

**EN 50397-1**

AA/XLPE

Description:

Aluminium alloy conductor, weather resistant
XLPE insulation,
Covered Conductors (CC)

12/20(24) kV

| Number of Cores & Cross Section mm ² | Insulation Thickness mm | Cable Diameter mm | Total Weight kg/km |
|--|----------------------------|----------------------|-----------------------|
| 1x35 | 2.3 | 12.3 | 164 |
| 1x50 | 2.3 | 13.6 | 214 |
| 1x70 | 2.3 | 15.7 | 282 |
| 1x95 | 2.3 | 17.4 | 363 |
| 1x120 | 2.3 | 19.0 | 443 |
| 1x150 | 2.3 | 20.6 | 536 |
| 1x185 | 2.3 | 22.4 | 645 |

1-Stranded circular aluminium alloy 2-XLPE insulation

Electrical Data

| Number of cores & Cross section | | Resistance at 20 °C (Ohm/km) | Current rating (A) | Circuit Current (A) |
|---------------------------------|----|------------------------------|--------------------|---------------------|
| 1x35 | RM | 0.986 | 195 | 3.2 |
| 1x50 | RM | 0.72 | 245 | 4.4 |
| 1x70 | RM | 0.493 | 300 | 6.9 |
| 1x95 | RM | 0.363 | 370 | 8.9 |
| 1x120 | RM | 0.288 | 425 | 11.7 |
| 1x150 | RM | 0.236 | 495 | 14.5 |
| 1x185 | RM | 0.187 | 570 | 18.0 |

TECHNICAL DATA



IEC & AWC Abbreviations

| | |
|--------------|--|
| Cu | Copper |
| Al | Aluminium |
| AA | Aluminium Alloy |
| TiCu | Tinned Copper |
| SiCu | Silver Coated copper |
| RM | Stranded Circular |
| SM | Shaped Stranded |
| SE | Shaped Solid |
| RE | Solid Circular |
| RF | Flexible Circular |
| RMS | Stranded Segmental (Milliken) |
| CTS | Copper Tape Screen |
| CWS | Copper Wire Screen |
| CuB | Copper Wire Braided Screen |
| ICTS | Individual Copper Tape Screen |
| ICWS | Individual Copper Wire Screen |
| ISCR | Individual Screen Formed by Polyester + Tinned Drain Wire + Aluminium Backed Polyester + Polyester |
| ISCRC | Individual Screen Formed by Polyester + Tinned Drain Wire + Copper Backed Polyester + Polyester |
| OSCR | Overall Screen Formed by Polyester + Tinned Drain Wire + Aluminium Backed Polyester |
| OSCRC | Overall Screen Formed by Polyester + Tinned Drain Wire + Copper Backed Polyester |
| TCB | Tinned Copper Wire Braided Screen |
| CW | Communication Wire |
| ATA | Double Aluminium Tape Armour |
| STA | Double Galv. Steel Tape Armour |
| AWA | Aluminium Wire Armour |
| AWAT | Aluminium Wire Armour + Counter Helix |
| SWA | Galv. Steel Wire Armour |
| SWAT | Galv. Steel Wire Armour + Counter Helix |
| SSWA | Stainless Steel Wire Armour |
| DAWA | Double Aluminium Wire Armour |
| DSWA | Double Galv. Steel Wire Armour |
| TCWA | Tinned Copper Wire Armour |
| AWB | Aluminium Wire Braided |
| SWB | Galv. Steel Wire Braided |
| BWB | Bronze Wire Braided |
| SSWB | Stainless Steel Wire Braided |
| LSh | Lead Sheath |
| AIPE | Aluminium Copolymer Coated |

| | |
|--------------|--|
| Bd | Bedding |
| BT | Brass tape |
| BHT | Bituminized Hessian Tape |
| BPT | Bitumen Coated Paper Tape |
| BdT | Bedding Tape (PVC or PE) |
| BrT | Bronze Tape |
| MGT | Mica Glass Tape |
| PPT | Polypropylene Tape |
| SCT | Semi Conductive Tape |
| WBT | Water Blocking Tape |
| Pet | Polyester Tape (Mylar) |
| SCWBT | Semi-Conductive Water Blocking Tape |
| PPY | Polypropylene Yarn |
| WBY | Water Blocking Yarn |
| SCYF | Semi-conductive Yarn Filler |
| GC | Graphite Coating |
| GFB | Glass Fiber Braided |
| FPE | Foamed Polyethylene (Cellular) |
| TPU | Thermoplastic Polyurethane |
| SC | Ext. Polymer Semi Conductive |
| TPE | Thermoplastic Elastomer |
| PVC | Polyvinylchloride |
| XLPE | Cross Linked Polyethylene |
| SIR | Silicone Rubber |
| PE | Polyethylene |
| EVA | Ethylene Vinyl Acetate |
| XEVA | Cross Linked EVA |
| HDPE | High Density Polyethylene |
| HEPR | Hard Grade Ethylene Propylene Rubber |
| LDPE | Low Density Polyethylene |
| MDPE | Medium Density Polyethylene |
| LSFOH | Low Smoke Flame Retardant Zero Halogen |
| EPR | Ethylene Propylene Rubber |
| PVCE | High Temperature PVC (90°C) |
| PVCH | High temperature Sheathing Compound equal to IEC ST2 ,VDE YM5 (90°C) |
| APVC | Anti Termite PVC |
| APVCE | Anti Termite High Temperature PVC (90°C) |
| APVCH | Anti Termite & High Temperature Sheathing Compound equal to IEC ST2 ,VDE YM5 (90°C) |
| XPVC | Cross Linked PVC |
| OPVC | Oil, Acid & Hydrocarbon Resistance Sheathing Compound |
| OPVCH | Oil Resistant & High Temperature Sheathing Compound equal to IEC ST2 ,VDE YM5 (90°C) |

Table -1
Permissible current of cable for networks

| Number of conductors × section mm ² | Maximum Current carrying Capacity (Core temperature :90°C) (A) | | Voltage Drop (mV*A/m) |
|--|--|---------------------------------------|-----------------------------|
| | in the air at 30°C. held between posts | Public lighting In the air at 30°C | |
| 3 * 25 + 54,6 | 112 | --- | 2,20 |
| <u>3 * 35 + 54,6 + 16</u> | 138 | 83 | 1,65 |
| 3 * 50 + 54,6 + 16 | 168 | 83 | 1,27 |
| 3 * 70 + 54,6 + 16 | 213 | 83 | 0,87 |
| 3 * 70 + 54,6 + 16 | 213 | 111 | 0,87 |
| <u>3 * 70 + 70 + 16</u> | 213 | 83 | 0,87 |
| 3 * 95 + 70 + 16 | 253 | 83 | 0,67 |
| 3 * 120 + 70 + 16 | 300 | 83 | 0,55 |
| 3 * 120 + 95 + 16 | 300 | 83 | 0,55 |
| <u>3* 150 + 70 + 16</u> | 344 | 83 | 0,46 |
| 3* 150 + 95 + 16 | 344 | 83 | 0,46 |

NOTE : 54,6 mm², 70mm², and 95mm² are messenger in aluminium alloy

Table -2
Permissible current of connection cables

| Number of conductors × section mm ² | Maximum Current carrying Capacity (Core temperature: 90°C) | | | Voltage drop with cosφ=0,8 (mV*A/m) |
|--|---|------------|-------------|--|
| | (A) | | | |
| | Under use in the wall conduit at hottest point | In the air | On the wall | |
| <u>2 * 16</u> (SP) | 72 | 93 | 83 | 3,98 |
| <u>2 * 25</u> (SP) | 95 | 122 | 111 | 2,54 |
| <u>4 * 16</u> (TP) | 63 | 83 | 75 | 3,44 |
| <u>4 * 25</u> (TP) | 83 | 111 | 99 | 2,20 |
| <u>2 * 16 + 2 * 1,5</u> (SP) | 72 | 93 | 83 | 3,98 |
| <u>2 * 25 + 2 * 1,5</u> (SP) | 95 | 122 | 111 | 2,54 |
| <u>4 * 16 + 2 * 1,5</u> (TP) | 63 | 83 | 75 | 3,44 |
| <u>4 * 25 + 2 * 1,5</u> (TP) | 83 | 111 | 99 | 2,20 |

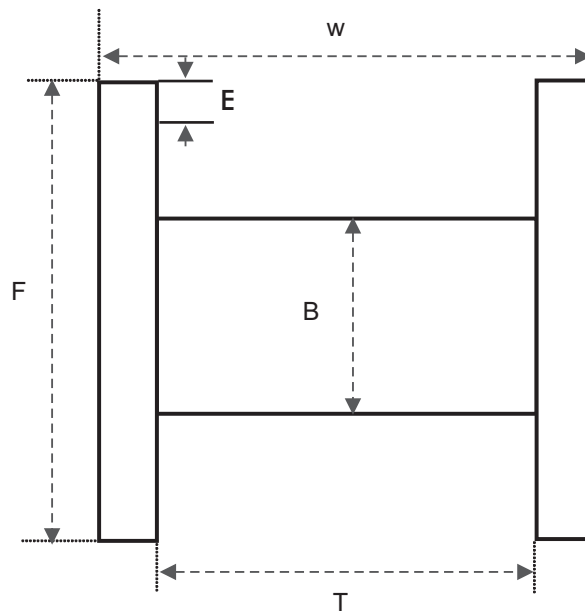
(SP) Single phased Network.

(TP) Triple phased Network.

| Max Cable length in meters on standard drums | | | | | | | | | | | | | |
|--|------|------|------|------|------|------|------|------|------|------|------|------|--------------|
| Drum Sizes | | | | | | | | | | | | | |
| Cable Dia.mm | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 30 | Cable Dia.mm |
| 6 | 1326 | 3961 | | | | | | | | | | | 6 |
| 7 | 975 | 2910 | | | | | | | | | | | 7 |
| 8 | 746 | 2228 | 4391 | | | | | | | | | | 8 |
| 9 | 590 | 1760 | 3470 | | | | | | | | | | 9 |
| 10 | 478 | 1426 | 2810 | 4566 | | | | | | | | | 10 |
| 11 | 395 | 1178 | 2323 | 3774 | | | | | | | | | 11 |
| 12 | 332 | 990 | 1952 | 3171 | 4912 | | | | | | | | 12 |
| 13 | 283 | 844 | 1663 | 2702 | 4185 | | | | | | | | 13 |
| 14 | | 727 | 1434 | 2330 | 3609 | 4934 | | | | | | | 14 |
| 15 | | 634 | 1249 | 2029 | 3144 | 4298 | | | | | | | 15 |
| 16 | | 557 | 1098 | 1784 | 2763 | 3777 | | | | | | | 16 |
| 17 | | 493 | 972 | 1580 | 2448 | 3346 | 4858 | | | | | | 17 |
| 18 | | 440 | 867 | 1409 | 2183 | 2985 | 4333 | 4643 | | | | | 18 |
| 19 | | 395 | 778 | 1265 | 1959 | 2679 | 3889 | 4167 | 4722 | | | | 19 |
| 20 | | 356 | 703 | 1142 | 1768 | 2417 | 3510 | 3760 | 4262 | | | | 20 |
| 21 | | 323 | 637 | 1035 | 1604 | 2193 | 3183 | 3411 | 3866 | | | | 21 |
| 22 | | 295 | 581 | 943 | 1461 | 1998 | 2901 | 3108 | 3522 | 4815 | | | 22 |
| 23 | | 270 | 531 | 863 | 1337 | 1828 | 2654 | 2843 | 3223 | 4406 | | | 23 |
| 24 | | | 488 | 793 | 1228 | 1679 | 2437 | 2611 | 2960 | 4046 | | | 24 |
| 25 | | | 450 | 731 | 1132 | 1547 | 2246 | 2407 | 2728 | 3729 | | | 25 |
| 26 | | | 416 | 675 | 1046 | 1430 | 2077 | 2225 | 2522 | 3448 | | | 26 |
| 27 | | | 386 | 626 | 970 | 1326 | 1926 | 2063 | 2338 | 3197 | | | 27 |
| 28 | | | 358 | 582 | 902 | 1233 | 1791 | 1919 | 2174 | 2973 | | | 28 |
| 29 | | | 334 | 543 | 841 | 1150 | 1669 | 1789 | 2027 | 2771 | 4826 | | 29 |
| 30 | | | 312 | 507 | 786 | 1074 | 1560 | 1671 | 1894 | 2590 | 4510 | | 30 |
| 31 | | | 292 | 475 | 736 | 1006 | 1461 | 1565 | 1774 | 2425 | 4224 | | 31 |
| 32 | | | 274 | 446 | 691 | 944 | 1371 | 1469 | 1665 | 2276 | 3964 | | 32 |
| 33 | | | 258 | 419 | 650 | 888 | 1289 | 1381 | 1565 | 2140 | 3727 | 4999 | 33 |
| 34 | | | | 395 | 612 | 836 | 1214 | 1301 | 1475 | 2016 | 3511 | 4709 | 34 |
| 35 | | | | 373 | 577 | 789 | 1146 | 1228 | 1392 | 1903 | 3313 | 4444 | 35 |
| 36 | | | | 352 | 546 | 746 | 1083 | 1161 | 1315 | 1798 | 3132 | 4200 | 36 |
| 37 | | | | 334 | 517 | 706 | 1026 | 1099 | 1245 | 1702 | 2965 | 3976 | 37 |
| 38 | | | | 316 | 490 | 670 | 972 | 1042 | 1181 | 1614 | 2811 | 3770 | 38 |
| 39 | | | | 300 | 465 | 636 | 923 | 989 | 1121 | 1532 | 2669 | 3579 | 39 |
| 40 | | | | 285 | 442 | 604 | 877 | 940 | 1065 | 1457 | 2537 | 3402 | 40 |
| 41 | | | | 272 | 421 | 575 | 835 | 895 | 1014 | 1386 | 2415 | 3238 | 41 |
| 42 | | | | 259 | 401 | 548 | 796 | 853 | 966 | 1321 | 2301 | 3086 | 42 |
| 43 | | | | | 383 | 523 | 759 | 814 | 922 | 1260 | 2195 | 2944 | 43 |
| 44 | | | | | 365 | 499 | 725 | 777 | 881 | 1204 | 2097 | 2812 | 44 |
| 45 | | | | | 349 | 478 | 693 | 743 | 842 | 1151 | 2004 | 2688 | 45 |
| 46 | | | | | 334 | 457 | 663 | 711 | 806 | 1101 | 1918 | 2573 | 46 |
| 47 | | | | | 320 | 438 | 636 | 681 | 772 | 1055 | 1837 | 2464 | 47 |
| 48 | | | | | 307 | 420 | 609 | 653 | 740 | 1012 | 1762 | 2363 | 48 |
| 49 | | | | | 295 | 403 | 585 | 626 | 710 | 971 | 1691 | 2267 | 49 |
| 50 | | | | | 283 | 387 | 562 | 602 | 682 | 932 | 1624 | 2178 | 50 |
| 51 | | | | | 272 | 372 | 540 | 578 | 655 | 896 | 1561 | 2093 | 51 |
| 52 | | | | | 262 | 358 | 519 | 556 | 630 | 862 | 1501 | 2013 | 52 |
| 53 | | | | | 252 | 344 | 500 | 535 | 607 | 830 | 1445 | 1938 | 53 |
| 54 | | | | | | 332 | 481 | 516 | 585 | 799 | 1392 | 1867 | 54 |
| 55 | | | | | | 320 | 464 | 497 | 564 | 770 | 1342 | 1800 | 55 |
| 56 | | | | | | 308 | 448 | 480 | 544 | 743 | 1294 | 1736 | 56 |
| 57 | | | | | | 298 | 432 | 463 | 525 | 717 | 1249 | 1676 | 57 |
| 58 | | | | | | 287 | 417 | 447 | 507 | 693 | 1207 | 1618 | 58 |
| 59 | | | | | | 278 | 403 | 432 | 490 | 670 | 1166 | 1564 | 59 |
| 60 | | | | | | 269 | 390 | 418 | 474 | 647 | 1127 | 1512 | 60 |
| 61 | | | | | | 260 | 377 | 404 | 458 | 626 | 1091 | 1463 | 61 |
| 62 | | | | | | 252 | 365 | 391 | 443 | 606 | 1056 | 1416 | 62 |
| 63 | | | | | | | 354 | 379 | 430 | 587 | 1023 | 1372 | 63 |
| 64 | | | | | | | 343 | 367 | 416 | 569 | 991 | 1329 | 64 |
| 65 | | | | | | | 332 | 356 | 403 | 552 | 961 | 1288 | 65 |
| 66 | | | | | | | 322 | 345 | 391 | 535 | 932 | 1250 | 66 |
| 67 | | | | | | | 313 | 335 | 380 | 519 | 904 | 1213 | 67 |
| 68 | | | | | | | 304 | 325 | 369 | 504 | 878 | 1177 | 68 |
| 69 | | | | | | | 295 | 316 | 358 | 490 | 853 | 1143 | 69 |
| 70 | | | | | | | 287 | 307 | 348 | 476 | 828 | 1111 | 70 |
| 71 | | | | | | | 278 | 298 | 338 | 462 | 805 | 1080 | 71 |
| 72 | | | | | | | 271 | 290 | 329 | 450 | 783 | 1050 | 72 |
| 73 | | | | | | | 263 | 282 | 320 | 437 | 762 | 1022 | 73 |
| 74 | | | | | | | 256 | 275 | 311 | 426 | 741 | 994 | 74 |
| 75 | | | | | | | 250 | 267 | 303 | 414 | 722 | 968 | 75 |
| 76 | | | | | | | | 260 | 295 | 403 | 703 | 942 | 76 |
| 77 | | | | | | | | 254 | 288 | 393 | 685 | 918 | 77 |
| 78 | | | | | | | | | 280 | 383 | 667 | 895 | 78 |
| 79 | | | | | | | | | 273 | 373 | 650 | 872 | 79 |
| 80 | | | | | | | | | 266 | 364 | 634 | 851 | 80 |
| 81 | | | | | | | | | 260 | 355 | 619 | 830 | 81 |
| 82 | | | | | | | | | 254 | 347 | 604 | 810 | 82 |
| 83 | | | | | | | | | | 338 | 589 | 790 | 83 |
| 84 | | | | | | | | | | 330 | 575 | 772 | 84 |
| 85 | | | | | | | | | | 323 | 562 | 753 | 85 |
| 86 | | | | | | | | | | 315 | 549 | 736 | 86 |
| 87 | | | | | | | | | | 308 | 536 | 719 | 87 |
| 88 | | | | | | | | | | 301 | 524 | 703 | 88 |
| 89 | | | | | | | | | | 294 | 512 | 687 | 89 |
| 90 | | | | | | | | | | 288 | 501 | 672 | 90 |
| 91 | | | | | | | | | | 281 | 490 | 657 | 91 |
| 92 | | | | | | | | | | 275 | 480 | 643 | 92 |
| 93 | | | | | | | | | | 269 | 469 | 629 | 93 |
| 94 | | | | | | | | | | 264 | 459 | 616 | 94 |
| 95 | | | | | | | | | | 258 | 450 | 603 | 95 |
| 96 | | | | | | | | | | 253 | 440 | 591 | 96 |
| 97 | | | | | | | | | | | 431 | 579 | 97 |
| 98 | | | | | | | | | | | 423 | 567 | 98 |
| 99 | | | | | | | | | | | 414 | 555 | 99 |
| 100 | | | | | | | | | | | 406 | 544 | 100 |



| Drum size | Flange Dia. F | Barrel Dia. B | Traverse T | Width overall W | Drum weight Kg |
|-----------|---------------|---------------|------------|-----------------|----------------|
| 6 | 600 | 300 | 400 | 430 | 20 |
| 8 | 800 | 350 | 520 | 600 | 30 |
| 10 | 1000 | 450 | 620 | 700 | 50 |
| 12 | 1200 | 600 | 720 | 820 | 70 |
| 14 | 1400 | 700 | 790 | 920 | 125 |
| 16 | 1600 | 900 | 900 | 1028 | 175 |
| 18 | 1800 | 1100 | 1120 | 1248 | 290 |
| 20 | 2000 | 1200 | 1120 | 1248 | 330 |
| 22 | 2200 | 1400 | 1120 | 1248 | 450 |
| 24 | 2400 | 1600 | 1370 | 1570 | 595 |
| 26 | 2600 | 1600 | 1700 | 1900 | 645 |
| 30 | 3000 | 2000 | 1900 | 2100 | 770 |



$$L_T = \frac{\pi NP (B + PD)}{1000}$$

$$P = \frac{F - B - 2E}{2D}$$

$$N = 0.95 \frac{T}{D}$$

L_T = Length of Cable (m)

F = Flange Dia. (mm)

B = Barrel Dia. (mm)

D = Cable Dia. (mm)

T = Traverse (mm)

E = Empty Space (mm)

