

NA2XRH Aluminium Conductor IEC 60502-1 XLPE SWA LSZH 0.6/1kV Cable



APPLICATION

Multi-core LSZH cable with steel wire armour (SWA). Power and auxiliary fixed wiring cables for use in power networks, underground, outdoor and indoor applications and for use in cable ducting. For installation where fire, smoke emission and toxic fumes create a potential threat to life and equipment.

STANDARDS

Generally to BS 6724, IEC 60502-1, EN 50267-2-1, EN 60228
Flame Retardant according to IEC/EN 60332-1-2, IEC/EN 60332-3-24
Low Smoke Zero Halogen according to IEC/EN 60754-1/2, IEC/EN 61034-1/2

CHARACTERISTICS

Voltage Rating U₀/U
0.6/1kV

Temperature Rating
Fixed: -5°C to +90°C

Minimum Bending Radius
15 x overall diameter

THE CABLE TEST

We have world-class testing facility, and made rigorous testing regime, every meter of cable before leaving the factory must go through strict testing, testing qualified products will be shipped to customers, effectively ensure product quality and meet customer requirements.

CONSTRUCTION

Conductor
Class 2 stranded aluminium conductor

Insulation
XLPE (Cross-Linked Polyethylene)

Filler
LSZH (Low Smoke Zero Halogen)

Armour
Single core: AWA (Aluminium wire armour)
All other sizes: SWA (Galvanized round steel wire)

Sheath
LSZH (Low Smoke Zero Halogen)

SUSTAINABILITY COMMITMENT

Henan CJDL Cable actively implements the "carbon reduction" goal, strives to promote the green's low-carbon transformation, strengthens energy-saving and emission reduction technology innovation, and promotes the company's healthy and sustain-able development.

DIMENSIONS

| NO. OF CORES | NOMINAL CROSS SECTIONAL AREA mm ² | NOMINAL INSULATION THICKNESS mm | NOMINAL OUTER SHEATH THICKNESS mm | NOMINAL OUTER DIAMETER mm | NOMINAL WEIGHT kg/km |
|--------------|---|------------------------------------|--------------------------------------|------------------------------|-------------------------|
| 1 | 70 | 1.1 | 1.3 | 19.6 | 525 |
| 1 | 95 | 1.1 | 1.3 | 21.1 | 620 |
| 1 | 120 | 1.2 | 1.3 | 22.7 | 730 |
| 1 | 150 | 1.4 | 1.4 | 26.2 | 935 |
| 1 | 185 | 1.6 | 1.5 | 27.7 | 1085 |
| 1 | 240 | 1.7 | 1.5 | 30.3 | 1310 |
| 1 | 300 | 1.8 | 1.6 | 33 | 1560 |
| 1 | 400 | 2 | 1.7 | 36.9 | 1995 |
| 1 | 500 | 2.2 | 1.7 | 40.3 | 2375 |
| 1 | 630 | 2.4 | 1.8 | 44.8 | 2963 |
| 2 | 25 | 0.9 | 1.3 | 23.2 | 850 |
| 2 | 35 | 0.9 | 1.4 | 26.4 | 1165 |
| 2 | 50 | 1 | 1.6 | 29.8 | 1390 |
| 2 | 70 | 1.1 | 1.7 | 34.3 | 1925 |
| 2 | 95 | 1.1 | 1.7 | 37.3 | 2270 |
| 2 | 150 | 1.4 | 1.8 | 45.9 | 2945 |
| 2 | 185 | 1.6 | 2 | 50 | 3990 |
| 2 | 240 | 1.7 | 2.1 | 55.4 | 4760 |
| 2 | 300 | 1.8 | 2.1 | 60.8 | 5600 |
| 3 | 25 | 0.9 | 1.4 | 25.4 | 1100 |
| 3 | 35 | 0.9 | 1.5 | 28 | 1300 |
| 3 | 50 | 1 | 1.5 | 28.1 | 1370 |
| 3 | 70 | 1.1 | 1.6 | 31.6 | 1700 |
| 3 | 95 | 1.1 | 1.7 | 35.6 | 2215 |
| 3 | 120 | 1.2 | 1.8 | 39 | 2610 |
| 3 | 150 | 1.4 | 1.9 | 43.1 | 3485 |
| 3 | 185 | 1.6 | 2 | 47.1 | 4065 |
| 3 | 240 | 1.7 | 2.1 | 52 | 4900 |
| 3 | 300 | 1.8 | 2.2 | 57.1 | 5750 |
| 3 | 400 | 2 | 2.4 | 64.3 | 7105 |
| 4 | 25 | 0.9 | 1.4 | 27.4 | 1265 |
| 4 | 35 | 0.9 | 1.5 | 30.3 | 1520 |
| 4 | 50 | 1 | 1.6 | 31.8 | 1655 |
| 4 | 70 | 1.1 | 1.7 | 36.6 | 2320 |
| 4 | 95 | 1.1 | 1.8 | 39.3 | 2755 |
| 4 | 120 | 1.2 | 1.9 | 44.4 | 3635 |
| 4 | 150 | 1.4 | 2 | 48.9 | 4280 |
| 4 | 185 | 1.6 | 2.1 | 53.7 | 5025 |
| 4 | 240 | 1.7 | 2.2 | 59.7 | 6105 |
| 4 | 300 | 1.8 | 2.4 | 65.3 | 7315 |
| 5 | 25 | 0.9 | 1.5 | 29.7 | 1530 |
| 5 | 35 | 0.9 | 1.6 | 32.9 | 1830 |
| 5 | 50 | 1 | 1.7 | 37.8 | 2535 |
| 5 | 70 | 1.1 | 1.8 | 43 | 3250 |

Laying conditions at trefoil formation are as below:

- Soil thermal resistivity 120°C.Cm/Watt
- Burial depth 0.5 m
- Ground temperature 15 °C
- Air temperature 25 °C
- Frequency 50 Hz

ELECTRICAL CHARACTERISTICS

| NO. OF CORES | NOMINAL CROSS SECTIONAL AREA mm ² | MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C | MAXIMUM CONDUCTOR AC RESISTANCE AT 50 Hz | CONDUCTOR S.C.C For 1 second KA | CURRENT RATING | | |
|--------------|---|---|--|---------------------------------|----------------|--------------|------------------|
| | | | | | Laid in ground | Laid in duct | Laid in free air |
| 1 | 70 | 0.443 | 0.565 | 6.61 | 220 | 171 | 236 |
| 1 | 95 | 0.32 | 0.408 | 8.98 | 262 | 205 | 288 |
| 1 | 120 | 0.253 | 0.323 | 11.34 | 298 | 235 | 333 |
| 1 | 150 | 0.206 | 0.263 | 14.17 | 333 | 265 | 378 |
| 1 | 185 | 0.164 | 0.209 | 17.48 | 376 | 301 | 436 |
| 1 | 240 | 0.125 | 0.159 | 22.68 | 433 | 352 | 516 |
| 1 | 300 | 0.1 | 0.128 | 28.35 | 487 | 401 | 592 |
| 1 | 400 | 0.0778 | 0.099 | 37.79 | 549 | 459 | 688 |
| 1 | 500 | 0.0605 | 0.077 | 47.24 | 619 | 526 | 795 |
| 1 | 630 | 0.0469 | 0.06 | 59.52 | 693 | 598 | 911 |
| 2 | 25 | 1.2 | 1.53 | 3.58 | 139 | 103 | 131 |
| 2 | 35 | 0.868 | 1.107 | 5.01 | 167 | 123 | 160 |
| 2 | 50 | 0.641 | 0.817 | 7.15 | 199 | 148 | 195 |
| 2 | 70 | 0.443 | 0.565 | 10.02 | 243 | 184 | 244 |
| 2 | 95 | 0.32 | 0.408 | 13.59 | 292 | 222 | 300 |
| 2 | 150 | 0.206 | 0.263 | 21.46 | 372 | 288 | 394 |
| 2 | 185 | 0.164 | 0.209 | 26.47 | 420 | 332 | 455 |
| 2 | 240 | 0.125 | 0.159 | 34.34 | 487 | 387 | 537 |
| 2 | 300 | 0.1 | 0.128 | 42.93 | 590 | 475 | 586 |
| 3 | 25 | 1.2 | 1.53 | 2.36 | 112 | 84 | 108 |
| 3 | 35 | 0.868 | 1.107 | 3.31 | 135 | 101 | 131 |
| 3 | 50 | 0.641 | 0.817 | 4.72 | 161 | 120 | 157 |
| 3 | 70 | 0.443 | 0.565 | 6.61 | 199 | 149 | 199 |
| 3 | 95 | 0.32 | 0.408 | 8.98 | 238 | 180 | 242 |
| 3 | 120 | 0.253 | 0.323 | 11.34 | 271 | 207 | 282 |
| 3 | 150 | 0.206 | 0.263 | 14.17 | 302 | 235 | 319 |
| 3 | 185 | 0.164 | 0.209 | 17.48 | 342 | 268 | 367 |
| 3 | 240 | 0.125 | 0.159 | 22.68 | 396 | 313 | 433 |
| 3 | 300 | 0.1 | 0.128 | 28.35 | 445 | 356 | 496 |
| 3 | 400 | 0.0778 | 0.099 | 37.79 | 509 | 412 | 578 |
| 4 | 25 | 1.2 | 1.53 | 3.58 | 114 | 86 | 110 |
| 4 | 35 | 0.868 | 1.107 | 5.01 | 137 | 104 | 135 |
| 4 | 50 | 0.641 | 0.817 | 7.15 | 166 | 124 | 164 |
| 4 | 70 | 0.443 | 0.565 | 10.02 | 203 | 155 | 208 |
| 4 | 95 | 0.32 | 0.408 | 13.59 | 243 | 185 | 253 |
| 4 | 120 | 0.253 | 0.323 | 17.17 | 276 | 215 | 294 |
| 4 | 150 | 0.206 | 0.263 | 21.46 | 310 | 243 | 336 |
| 4 | 185 | 0.164 | 0.209 | 26.47 | 351 | 278 | 386 |
| 4 | 240 | 0.125 | 0.159 | 34.34 | 405 | 326 | 454 |
| 4 | 300 | 0.1 | 0.128 | 42.93 | 456 | 369 | 520 |
| 5 | 25 | 1.2 | 1.53 | 3.58 | 114 | 86 | 110 |
| 5 | 35 | 0.868 | 1.107 | 5.01 | 137 | 104 | 135 |
| 5 | 50 | 0.641 | 0.817 | 7.15 | 166 | 124 | 164 |
| 5 | 70 | 0.443 | 0.565 | 10.02 | 203 | 155 | 208 |

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.