

Application: These cables are used in UPS systems and server rooms as the nylon and fiber glass braid on the cable does not allow the heat generated in the conductor, due to continuous operation, to be felt in the surrounding areas. These cables are widely used in aircraft cabling.



TINNED COPPER · GLASS & NYLON BRAID

TECHNICAL CHARACTERISTICS & STANDARDS

600V r.m.s.
MAX OPERATING VOLTAGE

-35°C to 105°C
OPERATING TEMP RANGE

100%
BRAID COVERAGE

Uninyvin Cables – Annealed Tinned Copper Conductor, HR-PVC Insulated, Glass & Nylon Fiber Braided

Size	Nominal Conductor Area Sq.mm	Diameter of Conductor	No. of Wire & Nominal Diameter	Minimum Radial Thickness of PVC Insulation mm	Nylon Braiding & Lacquering mm · mm	
Uninyvin - 0000	1 C x 109 mm ²	15.621 × 14.859	666 × 0.457	0.787	0.381 × 0.127	18.7 × 17.9
Uninyvin - 000	1 C x 84.2 mm ²	13.919 × 13.157	513 × 0.457	0.762	0.381 × 0.1271	6.9 × 16.1
Uninyvin - 00	1 C x 68.3 mm ²	12.446 × 11.684	416 × 0.457	0.686	0.381 × 0.127	15.4 × 14.6
Uninyvin - 0	1 C x 53 mm ²	10.973 × 10.338	323 × 0.457	0.635	0.381 × 0.127	13.7 × 13.0
Uninyvin - 1	1 C x 40.7 mm ²	9.754 × 9.119	248 × 0.457	0.559	0.381 × 0.127	12.2 × 11.7
Uninyvin - 2	1 C x 33.3 mm ²	8.763 × 8.128	203 × 0.457	0.483	0.381 × 0.127	11.0 × 10.5
Uninyvin - 4	1 C x 21.5 mm ²	6.909 × 6.452	294 × 0.305	0.483	0.381 × 0.127	9.3 × 9.8
Uninyvin - 6	1 C x 13.3 mm ²	5.537 × 5.080	182 × 0.305	0.381	0.381 × 0.127	7.6 × 7.3
Uninyvin - 8	1 C x 8.76 mm ²	4.242 × 3.937	120 × 0.305	0.381	0.381 × 0.127	6.3 × 5.9
Uninyvin - 10	1 C x 5.33 mm ²	3.150 × 2.896	73 × 0.305	0.381	0.381 × 0.127	5.0 × 4.6
Uninyvin - 12	1 C x 3.22 mm ²	2.438 × 2.286	110 × 0.191	0.279	0.178 × 0.076	3.8 × 3.5
Uninyvin - 14	1 C x 2.05 mm ²	1.956 × 1.803	70 × 0.193	0.279	0.178 × 0.076	3.4 × 3.0
Uninyvin - 16	1 C x 1.171 mm ²	1.549 × 1.397	40 × 0.193	0.229	0.178 × 0.076	2.8 × 2.5
Uninyvin - 18	1 C x 0.966 mm ²	1.321 × 1.219	33 × 0.193	0.229	0.178 × 0.076	2.5 × 2.3
Uninyvin - 20	1 C x 0.556 mm ²	1.041 × 0.940	19 × 0.193	0.229	0.178 × 0.076	2.3 × 2.0
Uninyvin - 22	1 C x 0.347 mm ²	0.838 × 0.737	19 × 0.152	0.23	0.178 × 0.076	2.0 × 1.8

CONDUCTOR

Annealed tinned copper to IS: 10241 Part 3, uniformly bunched to form a circular shape

INSULATION

Special core insulation HR-PVC 105° C

BRAIDING

Primary: glass fiber, 100% coverage
Secondary: nylon fiber, 100% coverage

LACQUER

Overall construction is finally lacquered with nylon varnish

PROPERTIES

Resistant to ester-based fluids (hydraulic oil), acids, chemicals and solvents. The nylon and glass fibers are very good heat resistant materials.