

37-221

Red Jumper Cable

Flexible • 5000/15000 Volts • 90°C

Conductors

Flexible-stranded, tinned, annealed coated copper per ASTM B-33

Conductor Shield

Combination semiconducting tape and/or extruded semiconductive thermosetting material. The semiconductive tape prevents any penetration of the extruded conductor shield into the inner layers of the flexible conductor.

Jacket

Thermosetting bright red jacket, 90°C rated



Insulation

Heat resisting 90°C Ethylene-Propylene rubber (EPR), meeting ASTM D-2802. It has excellent dielectric properties and is highly resistant to heat, moisture, and ozone.

Identification

Cable is surface printed showing manufacturer's name, size, voltage rating, and temperature rating

Application

Portable dual rated 5000/15000 volt jumper cables can be used as temporary jumper leads for portable or mobile substations, or for temporarily by-passing damaged or faulted sections of power cable. The finely stranded conductor provides an exceptionally flexible cable that can be easily trained and connected in confined areas such as transformer vaults and switch gear enclosures.

Features

- Extremely flexible stranding
- Bright red thermosetting jacket
- The conductor shield is bonded to the insulation – providing easy, clean stripping
- The 90°C insulation has excellent dielectric properties and is highly resistant to heat, moisture and ozone.

Ratings & Approvals

- ASTM B-33: Standard Specification for Tinned Soft or Annealed Copper Wire for Electrical Purposes
- ASTM D2802: Standard Specification for Ozone-Resistant Ethylene-Alkene Polymer Insulation for Wire and Cable

Application Note

Jumper cables should not be used in place of normal high voltage cables. They should be isolated in areas where contact with people is limited. Because jumper cables cannot be protected against prolonged contact with other conductors or grounds by shielding, these cables must be positioned away from contact with grounds, transformer cases, cross-arms, etc., to avoid possible high stress and capacitance leakage. Cables should be installed with at least one cable diameter of separation between adjacent conductors and between conductors and all metallic and/or electrically grounded parts. These cables are not intended for permanent service.

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Part No. 37-221-	Size AWG/ kcmil	Minimum Wires per Conductor	Nominal Insulation Thickness in.	Nominal Jacket Thickness in.	Nominal Outside Diameter in.	Approx. Weight lbs. per 1,000 ft.	Ampacity 90°C at 5kV/15 kV
008	8	133	0.210	0.065	0.777	310	83/NA*
006	6	133	0.210	0.065	0.816	360	110/110
004	4	259	0.210	0.065	0.875	449	145/150
003	3	259	0.210	0.065	0.903	495	170/170
002	2	259	0.210	0.065	0.944	563	190/195
001	1	259	0.210	0.065	0.981	635	225/225
010	1/0	266	0.210	0.065	1.040	742	260/260
020	2/0	323	0.210	0.065	1.090	869	300/300
030	3/0	418	0.210	0.065	1.133	976	345/345
040	4/0	532	0.210	0.065	1.215	1181	400/400
250	250	627	0.210	0.065	1.216	1281	445/445
350	350	888	0.210	0.065	1.327	1692	550/550
500	500	1221	0.210	0.065	1.456	2192	695/685

- 8 AWG Jumper recommended only for use at 5kv
- Cable diameters and weights are subject to +/- 5% manufacturing tolerance
- Ampacity is calculated with a 90°C conductor temperature and 40°C ambient air, per 2005 NEC, Table 310-69