

NM-B/NMC

Copper Multi-conductor



Description

The NMB-B/NMC is an electrical multi-conductor formed by soft copper EcoPlus THHN/THWN-2 assembled in 2 or 3 parallel conductors. The group is then protected with a white or grey color polyvinyl chloride (PVC) thermoplastic jacket.

Standard Specifications

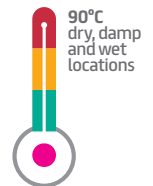
The NMB-B/NMC multi-conductors are built based on the following:

- Standards: **ASTM B3, B8. UL 83 and 719.**
- Certificate: CIDET # 0503.

Features

- NMB-B/NMC conductors are manufactured in multiple gauges and formations: duplex and triplex from 14 AWG (2.08 mm²) up to 8 AWG (8,37 mm²).
- Their individual cores or conductors are THHN/THWN-2 type with the basic colors: black, white and green.

- NMB-B/NMC is designed to operate at 600 V and 90°C max temperature in dry, humid and wet conditions.
- Due to its PVC insulation and nylon jacket system the NMB-B/NMC cables do not flame propagate; they are also tray cable approved NEC Art. 334.
- Complies with RoHS (*Restriction of Hazardous Substances*) regulation.
- NMB-B/NMC is ecologically friendly due to its lead-free PVC and other compounds used in the insulation and jackets.



Applications

- The NM-B/NMC multi-conductor applications are defined in NEC Art. 334. NFPA 70 NEC.
- The NM-B/NMC is mainly used on lighting outlets and residential electrical circuits.
- The NM-B/NMC is allowed to be installed in residential units in fixed circuits, also temporary derivation circuits exposed or covered with in hollow walls and wood studs.

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- The NM-B/NMC can be used where THHN/THWN-2 conductors are approved by the NFPA 70. The jacketed conductor is cable tray approved.

Technical Information

Dimensions and nominal features

The conductor operating amperage is defined by the installation conditions and operating temperatures identified in the NEC. See TABLE 310.15(B)(16) NEC NFPA 70 latest version

Formation & Gauge	Area	Wires	Insulation Thickness		Width		Height		Weight	DC Max. @ 20°C Resistance
AWG	mm ²	#	in	mm	in	mm	in	mm	kg/km	Ω/km
Duplex										
2 x 14	2,08	1	0,0300	0,762	0,2616	6,64	0,1608	4,08	62,28	8,45
2 x 12	3,31	1	0,0300	0,762	0,2944	7,48	0,1772	4,50	88,14	5,31
2 x 10	5,26	1	0,0300	0,762	0,3558	9,04	0,2079	5,28	133,47	3,34
2 x 14	2,08	7	0,0300	0,762	0,2784	7,07	0,1692	4,30	65,41	8,62
2 x 12	3,31	7	0,0300	0,762	0,3154	8,01	0,1877	4,77	92,28	5,43
2 x 10	5,26	7	0,0300	0,762	0,3840	9,75	0,2220	5,64	140,17	3,41
2 x 8	8,37	7	0,0300	0,762	0,4860	12,34	0,2730	6,93	221,68	2,14
Triplex										
3 x 14	2,08	1	0,0300	0,762	0,3624	9,20	0,1608	4,08	91,61	8,45
3 x 12	3,31	1	0,0300	0,762	0,4116	10,45	0,1772	4,50	130,49	5,31
3 x 10	5,26	1	0,0300	0,762	0,5037	12,79	0,2079	5,28	198,78	3,34
3 x 14	2,08	7	0,0300	0,762	0,3876	9,85	0,1692	4,30	96,34	8,62
3 x 12	3,31	7	0,0300	0,762	0,4431	11,25	0,1877	4,77	136,78	5,43
3 x 10	5,26	7	0,0300	0,762	0,5460	13,87	0,2220	5,64	209,03	3,41
3 x 8	8,37	7	0,0300	0,762	0,6990	17,75	0,2730	6,93	332,35	2,14

Note: The values given may vary according to the manufacturing tolerances



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