NM-B/NMC

Multiconductor de Cobre

GENERAL INFORMATION

The NMB-B/NMC is an electrical multiconductor 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.

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.

CERTIFICATIONS AND DESIGN STANDARDS

Standards of design: IEC 60228, ASTM B3, ASTM B8, UL 83 and UL 719

Certifications: CIDET 05303

CABLE DESIGN

Conductor material	Copper
Core insulation material	Polyvinyl chloride (PVC)

ELECTRICAL & THERMAL PARAMETERS

Nominal voltage U [V]	600

INSTALLATION DETAILS

Application	Building Installations;Residential Installations;Industrial Installations
Outdoor installation	No
Underground installation	No
Suitable as installation cable	Yes

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PHYSICAL & CHEMICAL PROPERTIES

Flame retardant	Yes
Oil resistant	No
Moisture resistance	Yes

SPECIFIC 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.

LEGEND ON THE CABLE

For all gauges and configurations, the legend to be printed is:

PRYSMIAN (R) PHELPS DODGE (R) NM-B / NMC-B # X (GAUGE) AWG ((GAUGE) mm²) 600 V. CIDET CERTIFICATE No. 05303

PRODUCT CHARACTERISTICS

AWG size	Number of cores	Nominal cross section conductor [mm²]	Conductor strand count	Width [mm]	Height [mm]	Cable weight [kg/km]	Conductor resistance at 20° C [Ohm/km]
14	2	2.08	1	7	4	63.8	8.62
14	2	2.08	7	7	4	66.63	8.62
12	2	3.31	1	7	5	88.98	5.43
12	2	3.31	7	8	5	94.6	5.43
10	2	5.26	1	9	5	138.7	3.41
10	2	5.26	7	10	6	141.05	3.41
8	2	8.37	7	12	7	224.03	2.14
14	3	2.08	1	9	4	93.9	8.62
14	3	2.08	7	10	4	96.29	8.62
12	3	3.31	1	10	5	131.85	5.43
12	3	3.31	7	11	5	137.82	5.43
10	3	5.26	1	13	5	200.62	3.41
10	3	5.26	7	14	6	213.7	3.41
8	3	8.37	7	18	7	342.66	2.14

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

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