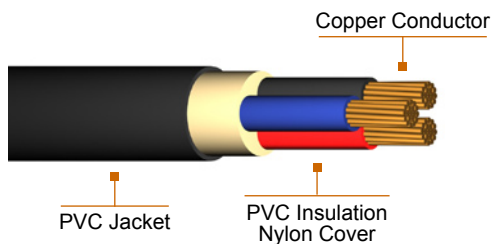


600 V Copper Multiconductor Cables. Each Single Conductor has a Thermoplastic Insulation protected with a Nylon Sheath, and then the whole multiconductor is protected by a Thermoplastic Jacket



Detail Description or Construction

Type TGP is an insulated multiconductor composed by stranded bare annealed copper conductors, each single conductor has a thermoplastic insulation of PVC (Polyvinyl Chloride) and protected by a Nylon sheath, in addition, the whole multiconductor is protected by a thermoplastic insulation of PVC. Designed to operate at not more than 600V, the TGP is manufactured in constructions duplex (two single conductors), triplex (three single conductors) and quadruplex (four single conductors), also in gauges from 14 AWG up to 4AWG.

The internal individual conductors are THHN type, therefore TGP product was designed to operate at 90°C of temperature inside the conductor in dry and wet conditions, as well as 75°C in water immersed conditions. The Nylon sheath provides mechanical protection against to chemical agents, petroleum derivatives and oils. Type TGP multiconductor has a tearable filler made from a special formulation, it ensure a efficient and safe installation protecting the individual internal conductors while stripping. Its black pigmentation on the external jacket resist the ultraviolet rays due to sun light exposure, thereby, these might be installed in cable trays at outside applications. This product meet the vertical flame test and it allowed to direct buried. Product color identification according to its construction is the following:
 Duplex: black- white
 Triplex: black-white-red
 Quadruplex: black-white-red-blue.



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Application

TGP product might be used at industrial applications like feeding motors, pumps, etc. It's ideal to be installed in petrochemical plants or gas service stations also to feed deep water tank pumps. In addition TGP might be used for underground entrance service allowing direct buried.

Standards / Testing Specifications

TGP conductors have been designed according to ASTM B3, B8, UL-83, UL-1581 and UL-1277 specifications and requirements of the latest version of the National Electrical Code (NEC).

Marking

PHELPS DODGE TGP # X (GAUGE) AWG ((GAUGE) mm²), SUN LIGHT AND OIL RESISTANT, DIRECT BURIED, 600V

Installation

TGP multiconductors can be installed in raceways, cable trays or direct buried. It is recommended that the installation instructions indicated by the Local Electric Code, or any equivalent, be followed, so that the safeguarding of persons and the integrity of the product will not be affected by deficiencies in the installation. For current ampacity details please refer to NEC table 310-16.



TGP

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No. of Cond. and Cond. Size	Nominal Cross-Section Area	Number of Wires	Jacket Thickness		Nominal O.D.		Approx. Total Weight	DC Resistance @ 30°C	Standard Packaging
			in	mm	in	mm			
2x14	2,08	7	0,045	1,14	0,331	8,42	103	9,07	WR 300, WR 500, WR 1000
2x12	3,31	7	0,045	1,14	0,369	9,38	139	5,74	WR 300, WR 500, WR 1000
2x10	5,26	7	0,045	1,14	0,437	11,10	204	3,59	WR 300, WR 500, WR 1000
2x8	8,37	7	0,060	1,52	0,571	14,51	339	2,25	WR 300, WR 500, WR 1000
2x6	13,30	7	0,060	1,52	0,647	16,44	475	1,42	WR 300, WR 500, WR 1000
2x4	21,15	19	0,080	2,03	0,817	20,75	759	0,890	WR 300, WR 500, WR 1000
3x14	2,08	7	0,045	1,14	0,349	8,85	126	9,07	WR 300, WR 500, WR 1000
3x12	3,31	7	0,045	1,14	0,389	9,89	174	5,74	WR 300, WR 500, WR 1000
3x10	5,26	7	0,045	1,14	0,462	11,74	259	3,59	WR 300, WR 500, WR 1000
3x8	8,37	7	0,060	1,52	0,605	15,36	429	2,25	WR 300, WR 500, WR 1000
3x6	13,30	7	0,060	1,52	0,687	17,44	612	1,42	WR 300, WR 500, WR 1000
3x4	21,15	19	0,080	2,03	0,866	22,00	977	0,890	WR 300, WR 500, WR 1000
4x14	2,08	7	0,045	1,14	0,377	9,58	154	9,07	WR 300, WR 500, WR 1000
4x12	3,31	7	0,045	1,14	0,423	10,74	215	5,74	WR 300, WR 500, WR 1000
4x10	5,26	7	0,045	1,14	0,505	12,82	323	3,59	WR 300, WR 500, WR 1000
4x8	8,37	7	0,060	1,52	0,661	16,78	533	2,25	WR 300, WR 500, WR 1000
4x6	13,30	7	0,060	1,52	0,752	19,11	768	1,42	WR 300, WR 500, WR 1000
4x4	21,15	19	0,080	2,03	0,949	24,10	1,255	0,89	WR 300, WR 500, WR 1000

Packaging:
WR: wooden reel, CB: carton box, C: coils