

FIREWALL® III MULTICONDUCTOR JACKETED, N.E.C. Type TC 600 Volts, Max. Operating Temp. 90° C.

CONSTRUCTION: Conductors are stranded tinned copper insulated with flame-retardant cross-linked polyethylene, circuit coded, conductors cabled with fillers as necessary. Cabled conductors are wrapped with fire retardant tape and jacketed with heavy duty, flame-retardant neoprene sheath.

APPLICATION: Recommended for power circuits where fire and radiation resistant properties are required. Suitable for general use at 90°C and recommended for industrial and utility installations in conduit, tray, duct or direct burial. UL listed as Type TC

cable meeting requirements of Article 340 of N.E.C

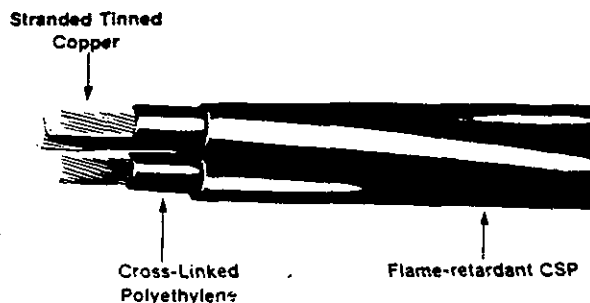
ADVANTAGES: Have excellent electrical and mechanical properties. They are lightweight, small diameter cable and are operative after radiation exposure in excess of 2×10^6 Rads, followed by post-accident environmental conditions. Cable meets IEEE 383-74 in addition to singles meeting UL and IPCEA Vertical Flame Test requirements. Cables will not propagate flame during a cable tray fire and will also maintain electrical integrity long enough to satisfy post-accident safety requirements.

No. of Conductors	Size AWG or MCM	Stranding	Insulation Thickness (mils)	Jacket Thickness (mils)	Nominal O.D. (in.)	Net Weight (lbs./M')	Ampacity*
3	8	7/.0486	45	60	.68	330	50
4			45	60	.76	450	40
3	6	7/.0612	45	60	.76	490	70
4			45	80	.89	650	56
3	4	7/.0772	45	80	.91	730	90
4			45	80	1.00	920	72
3	2	7/.0974	45	80	1.04	1050	120
4			45	80	1.15	1320	96
3	1	19/.0664	55	80	1.17	1330	140
4			55	80	1.30	1680	112
3	1/0	19/.0745	55	80	1.26	1460	155
4			55	80	1.40	1820	124
3	2/0	19/.0837	55	80	1.36	1830	185
4			55	80	1.50	2340	148
3	3/0	19/.0940	55	80	1.47	2150	210
4			55	80	1.63	2850	168
3	4/0	19/.1055	55	80	1.59	2750	235
4			55	110	1.83	3500	188
3	250	37/.0822	65	110	1.80	3360	270
4			65	110	1.99	4300	216
3	350	37/.0973	65	110	2.03	4440	325
4			65	110	2.25	5580	260
3	500	37/.1162	65	110	2.31	6100	405
4			65	110	2.57	7610	324

*Rating based on one cable in conduit, duct, direct burial or air, 30° C. ambient, 90° C. conductor temperatures.

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RBB 02816



FIREWALL® III Triplexed **600 Volts, Max. Operating Temp. 90° C.**

CONSTRUCTION: Conductors are stranded tinned copper insulated with flame-retardant cross-linked polyethylene, then jacketed with a heavy duty flame retardant, impervious chlorosulfonated polyethylene sheath properly vulcanized and firmly bonded to the insulation. Conductors are pre-assembled at the factory into triplexed cables for ease of installation.

APPLICATION: Recommended for power circuits where fire and radiation resistant properties are required. Suitable for general use at 90°C and recommended for industrial and utility installation in conduit,

tray, duct or direct burial. Sizes 250-750 MCM approved by N.E.C. Article 318 for use in cable trays.

ADVANTAGES: Have excellent electrical and mechanical properties. They are lightweight, small diameter cables, and are operative after radiation exposure in excess of 2×10^6 Rads, followed by post-accident environmental conditions. Cable meets IEEE 383-74 in addition to singles meeting UL and IPCEA Vertical Flame Test requirements. Cables will not propagate flame during a cable tray fire and will also maintain electrical integrity long enough to satisfy post-accident safety requirements.

Size AWG or MCM	Stranding	Diameter (in.)	Insulation Thickness (mils)	Covering (mils)	Overall Diameter (in.)	Net Weight (lbs./M')	Ampacity*
8	7/.0486	.146	45	15	.61	240	66
6	7/.0612	.184	45	30	.74	443	89
4	7/.0772	.232	45	30	.85	546	117
2	7/.0974	.292	45	30	.98	810	158
1	19/.0664	.332	55	45	1.17	1080	185
1/0	19/.0745	.373	55	45	1.26	1300	214
2/0	19/.0837	.419	55	45	1.36	1590	247
3/0	19/.0940	.470	55	45	1.47	1950	287
4/0	19/.1055	.528	55	45	1.59	2390	335
250	37/.0822	.575	65	65	1.83	2940	374
300	37/.0900	.630	65	65	1.95	3450	420
350	37/.0973	.681	65	65	2.06	3970	464
400	37/.1040	.728	65	65	2.16	4490	500
500	37/.1162	.813	65	65	2.34	5480	580
600	61/.0992	.893	80	65	2.58	6560	650
750	61/.1109	.998	80	65	2.81	8070	747

*Cable in air, 40° C ambient, 90° C conductor temperature.

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