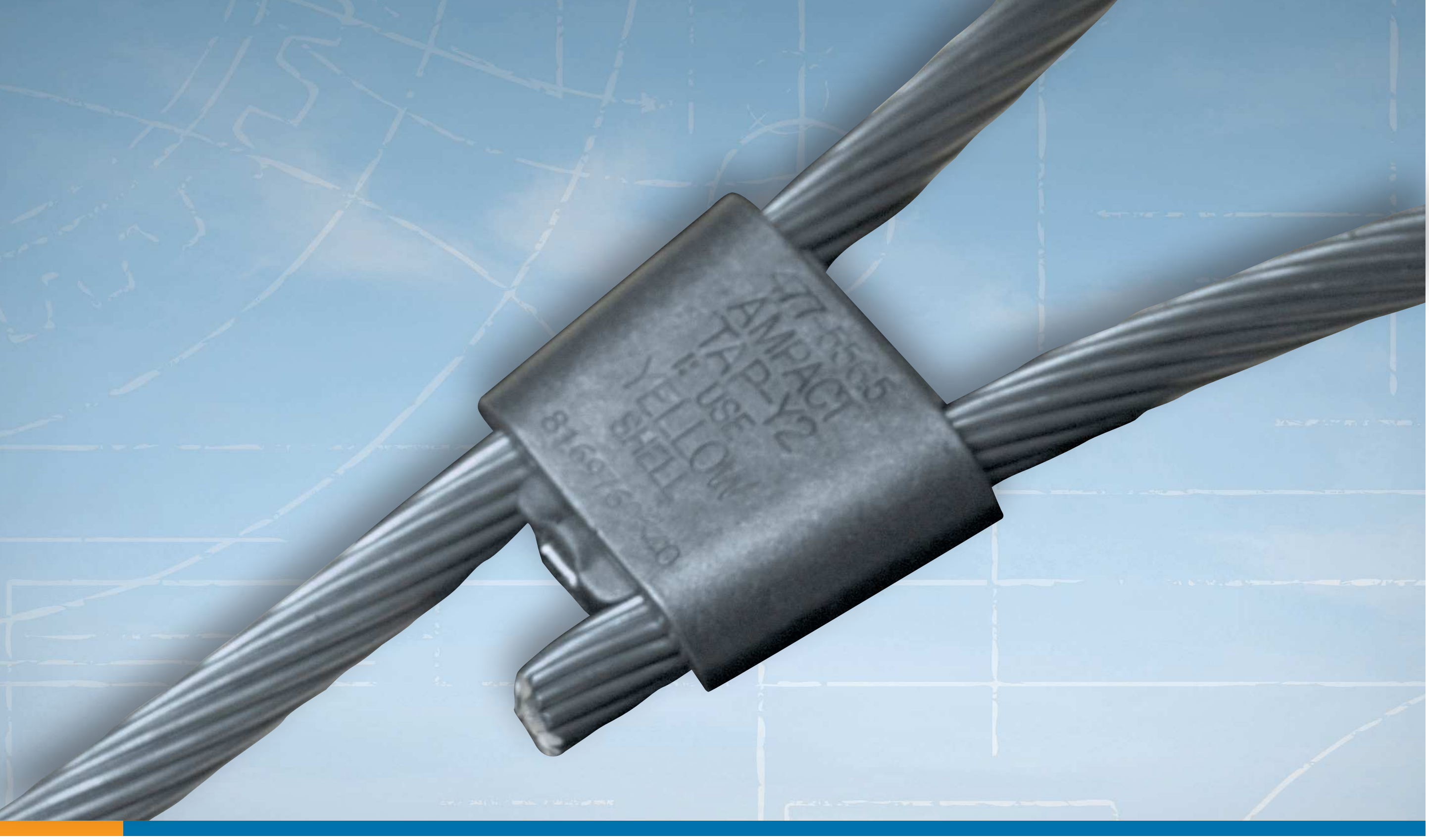

AMPACT ALUMINUM TAP CONNECTORS

RANGE 477/556 TO 1192

KEY FEATURES

- Installing taps takes a fraction of the time needed for conventional crimp-type connectors
- Taps may be used to connect multiple conductor combinations
- No damage to the conductors when installing or removing tap
- Lightweight, power-actuated tools require minimum operator effort
- Individual tap packages are imprinted with applicable conductor combinations

TE Connectivity's (TE) AMP utility connectors are designed around an engineering principle called "Wedge Pressure Technology". Field proven for more than 50 years, Wedge Pressure Technology has formed the basis for a complete family of connectors that out performs other connector types, resulting in "lowest life cycle cost" for our customers.

AMPACT tap connectors use the action of a metal wedge to secure the two conductors to be connected at opposing ends of the C-clamp. The wedge is inserted at a speed of about 40 m/s using the AMPACT connector tool. High-speed insertion is very effective in abrading all sliding surfaces and in disrupting surface oxide film to generate large numbers of contact spots in the electrical interfaces.

After installation of the AMPACT tap, the C–member remains attached through the residual elastic force developed in the clamp. This force is sufficiently large to maintain a low electrical contact resistance but is insufficient to cause conductor plastic flow and ensuring stress relaxation in the connector. The elastic force also helps prevent creepage by compensating for expansion and contraction of the assembly during thermal cycling. The presence of an inhibitor in the electrical interfaces protects electrical contact spots from corrosive attack during use.

Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.



There are limits that must be considered when determining the tap/wire size combination for a particular application: the large (through) wire diameter, the small (tap) wire diameter, and the sum of the diameters. These tables allow selection of either the tap (when the wire diameters are known) or the wires (when the tap wire is known). Selection is based on wire diameter, not type or size designation of the wires as in selection manual in the TE catalog. The tables list the wire diameters for each groove of the tap and the limits for the sum of the diameters.

PRODUCT SELECTION INFORMATION: DIMENSIONS IN INCHES (mm)

Description	Sum of Diameters		Through Wire Diameter		Tap Wire Diameter	
477 /556 kcmil Range Taps Yellow Coded						
602031-8	1.185 (30.10)	.995 (25.27)	.893 (22.68)	.666 (16.92)	.326 (8.28)	.257 (6.53)
602031-9	1.118 (28.40)	.942 (23.93)	.893 (22.68)	.666 (16.92)	.258 (6.55)	.204 (5.18)
1-602031-0	1.056 (26.82)	.900 (22.86)	.893 (22.68)	.666 (16.92)	.199 (5.05)	.162 (4.11)
1-602031-2	1.854 (47.09)	1.692 (42.98)	.950 (24.13)	.722 (18.34)	.950 (24.13)	.722 (18.34)
1-602031-3	1.741 (44.22)	1.524 (38.71)	.940 (23.88)	.666 (16.92)	.940 (23.88)	.666 (16.92)
1-602031-4	1.587 (40.31)	1.366 (34.70)	.940 (23.88)	.666 (16.92)	.750 (19.05)	.573 (14.55)
1-602031-5	1.500 (38.10)	1.297 (32.94)	.940 (23.88)	.666 (16.92)	.750 (19.05)	.481 (12.22)
1-602031-6	1.421 (36.09)	1.216 (30.89)	.940 (23.88)	.666 (16.92)	.650 (16.51)	.436 (11.07)
1-602031-7	1.360 (34.54)	1.147 (29.13)	.940 (23.88)	.666 (16.92)	.562 (14.27)	.382 (9.70)
1-602031-8	1.305 (33.15)	1.102 (27.99)	.940 (23.88)	.666 (16.92)	.562 (14.27)	.346 (8.79)
1-602031-9	1.270 (32.26)	1.062 (26.97)	.940 (23.88)	.666 (16.92)	.450 (11.43)	.324 (8.23)
2-602031-0	1.247 (31.67)	1.115 (28.32)	.940 (23.88)	.666 (16.92)	.326 (8.28)	.257 (6.53)
2-602031-1	1.181 (30.00)	1.062 (26.97)	.940 (23.88)	.666 (16.92)	.258 (6.55)	.204 (5.18)
2-602031-2	1.126 (28.60)	1.020 (25.91)	.940 (23.88)	.666 (16.92)	.199 (5.05)	.162 (4.11)
795 kcmil Range Taps Yellow Coded						
602121	2.216 (56.29)	2.072 (52.63)	1.156 (29.36)	.858 (21.79)	1.158 (29.41)	.858 (21.79)
602121-1	2.159 (54.84)	2.002 (50.85)	1.156 (29.36)	.858 (21.79)	1.156 (29.36)	.858 (21.79)
602121-2	2.098 (53.29)	1.946 (49.43)	1.156 (29.36)	.858 (21.79)	1.156 (29.36)	.858 (21.79)
602121-3	2.035 (51.69)	1.891 (48.03)	1.156 (29.36)	.858 (21.79)	1.156 (29.36)	.858 (21.79)
602121-4	1.966 (49.94)	1.822 (46.28)	1.156 (29.36)	.858 (21.79)	.900 (22.86)	.700 (17.78)
602121-5	1.891 (48.03)	1.747 (44.37)	1.156 (29.36)	.858 (21.79)	.900 (22.86)	.700 (17.78)
602121-6	1.829 (46.46)	1.685 (42.80)	1.156 (29.36)	.858 (21.79)	.750 (19.05)	.525 (13.34)
602121-7	1.750 (44.45)	1.606 (40.79)	1.156 (29.36)	.858 (21.79)	.722 (18.34)	.525 (13.34)
602121-8	1.670 (42.42)	1.526 (38.76)	1.156 (29.36)	.858 (21.79)	.722 (18.34)	.364 (9.25)
602121-9	1.610 (40.89)	1.466 (37.24)	1.156 (29.36)	.858 (21.79)	.608 (15.44)	.364 (9.25)
1-602121-0	1.555 (39.50)	1.411 (35.84)	1.156 (29.36)	.858 (21.79)	.608 (15.44)	.364 (9.25)
1-602121-1	1.506 (38.25)	1.362 (34.59)	1.156 (29.36)	.858 (21.79)	.436 (11.07)	.324 (8.23)
1-602121-2	1.434 (36.42)	1.29 (32.77)	1.156 (29.36)	.858 (21.79)	.398 (10.11)	.257 (6.53)
1-602121-3	1.365 (34.67)	1.221 (31.01)	1.156 (29.36)	.858 (21.79)	.312 (7.92)	.204 (5.18)
1-602121-4	1.306 (33.17)	1.162 (29.51)	1.156 (29.36)	.858 (21.79)	.250 (6.35)	.162 (4.11)
1033.5 kcmil Range Taps Yellow Coded						
602180	2.496 (63.40)	2.332 (59.23)	1.250 (31.75)	.856 (21.74)	1.250 (31.75)	.856 (21.74)
602180-1	2.411 (61.24)	2.251 (57.18)	1.250 (31.75)	.856 (21.74)	1.250 (31.75)	.856 (21.74)
602180-2	2.354 (59.79)	2.194 (55.73)	1.250 (31.75)	.856 (21.74)	1.250 (31.75)	.856 (21.74)
602180-3	2.297 (58.34)	2.137 (54.28)	1.250 (31.75)	.856 (21.74)	1.250 (31.75)	.856 (21.74)
602180-4	2.236 (56.79)	2.076 (52.73)	1.250 (31.75)	.856 (21.74)	1.250 (31.75)	.856 (21.74)
602180-5	2.173 (55.19)	2.013 (51.13)	1.250 (31.75)	.856 (21.74)	1.250 (31.75)	.856 (21.74)
602180-6	2.104 (53.44)	1.944 (49.38)	1.250 (31.75)	.856 (21.74)	.900 (22.86)	.700 (17.78)
602180-7	2.029 (51.54)	1.869 (47.47)	1.250 (31.75)	.856 (21.74)	.900 (22.86)	.700 (17.78)
602180-8	1.967 (49.96)	1.807 (45.90)	1.250 (31.75)	.856 (21.74)	.750 (19.05)	.525 (13.34)
602180-9	1.888 (47.96)	1.728 (43.89)	1.250 (31.75)	.856 (21.74)	.722 (18.34)	.525 (13.34)
1-602180-0	1.808 (45.92)	1.648 (41.86)	1.250 (31.75)	.856 (21.74)	.608 (15.44)	.364 (9.25)
1-602180-1	1.748 (44.40)	1.588 (40.34)	1.250 (31.75)	.856 (21.74)	.608 (15.44)	.364 (9.25)
1-602180-2	1.693 (43.00)	1.533 (38.94)	1.250 (31.75)	.856 (21.74)	.608 (15.44)	.364 (9.25)
1-602180-3	1.644 (41.76)	1.484 (37.69)	1.250 (31.75)	.856 (21.74)	.398 (10.11)	.324 (8.23)
1-602180-4	1.572 (39.93)	1.412 (35.86)	1.250 (31.75)	.856 (21.74)	.326 (8.28)	.257 (6.53)
1-602180-5	1.503 (38.18)	1.343 (34.11)	1.250 (31.75)	.856 (21.74)	.258 (6.55)	.204 (5.18)
1-602180-6	1.444 (36.68)	1.284 (32.61)	1.250 (31.75)	.856 (21.74)	.198 (5.03)	.162 (4.11)
1192.5 kcmil Range Taps Yellow Coded						
602300	2.604 (66.14)	2.516 (63.91)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
602300-1	2.548 (64.72)	2.448 (62.18)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
602300-2	2.498 (63.45)	2.398 (60.91)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
602300-3	2.410 (61.21)	2.310 (58.67)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
602300-4	2.353 (59.77)	2.253 (57.23)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
602300-5	2.292 (58.22)	2.192 (55.68)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
602300-6	2.229 (56.62)	2.129 (54.08)	1.375 (34.93)	.856 (21.74)	1.375 (34.93)	.856 (21.74)
602300-7	2.160 (54.86)	2.060 (52.32)	1.375 (34.93)	.856 (21.74)	.900 (22.86)	.700 (17.78)
602300-8	2.085 (52.96)	1.985 (50.42)	1.375 (34.93)	.856 (21.74)	.900 (22.86)	.700 (17.78)
602300-9	2.023 (51.38)	1.923 (48.84)	1.375 (34.93)	.856 (21.74)	.750 (19.05)	.525 (13.34)
1-602300-0	1.944 (49.38)	1.844 (46.84)	1.375 (34.93)	.856 (21.74)	.722 (18.34)	.525 (13.34)
1-602300-1	1.865 (47.37)	1.765 (44.83)	1.375 (34.93)	.856 (21.74)	.608 (15.44)	.364 (9.25)
1-602300-2	1.804 (45.82)	1.704 (43.28)	1.375 (34.93)	.856 (21.74)	.608 (15.44)	.364 (9.25)
1-602300-3	1.749 (44.42)	1.649 (41.88)	1.375 (34.93)	.856 (21.74)	.608 (15.44)	.364 (9.25)
1-602300-4	1.701 (43.21)	1.601 (40.67)	1.375 (34.93)	.856 (21.74)	.398 (10.11)	.324 (8.23)
1-602300-5	1.627 (41.33)	1.527 (38.79)	1.375 (34.93)	.856 (21.74)	.326 (8.28)	.257 (6.53)
1-602300-6	1.559 (39.60)	1.459 (37.06)	1.375 (34.93)	.856 (21.74)	.258 (6.55)	.204 (5.18)
1-602300-7	1.500 (38.10)	1.400 (35.56)	1.375 (34.93)	.856 (21.74)	.198 (5.03)	.162 (4.11)

FOR MORE INFORMATION:

TE Technical Support Centers

USA:	+ 1 800 327 6996
France:	+ 33 380 583 200
UK:	+ 44 0870 870 7500
Germany:	+ 49 896 089 903
Spain:	+ 34 916 630 400
Italy:	+ 39 333 250 0915
Benelux:	+ 32 16 351 731
Canada:	+ 1 (905) 475-6222
Mexico:	+ 52 (0) 55-1106-0800
Latin/S. America:	+ 54 (0) 11-4733-2200
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