

short description of the test		All tests are done in the Intercable testing facilities in Brunico Italy. All facilities have ISO 9001 certification	
Pull out test: crimping solution for customer Miasin and Draka/Prysmian			remark:
tester	time required		
Lukas Untergasser / Alex Niederkofler	5h		

requirements / specifications	target of the test	result
Pull ot test conform with DIN EN 61238-1: Compression and mechanical connectors for powers cables	finding a crimping solution: To pass the test according to the standard DIN EN 61238-1, the conductor must not slip in the crimp/press connection at 100% of the tensile force and a holding time of 60 seconds	The required pulling force to the norm DIN EN 61238-1 could be maintained for one minute without slipping and, in addition, a much higher maximum force was achieved. All attempts were completed positively. The crimping solution is thus released.

Sez. mm ²	Cable type	Lug	Die	Tool	required value[Nm]	detected value [Nm]	result		remark
							pos.	neg.	
70	Draka Prysmian HULTflex 4x70mm2 klasse 2	ICR7010	MI70-CK	AP60-2	4.200	5.706	X		Lug was crimped two times
						5.987	X		Lug was crimped two times
						6.660	X		Lug was crimped two times
70	Draka Prysmian Vultflex 4x70mm2 klasse 5	ICR7010	MI70-CK	AP60-2	4.200	4.799	X		Lug was crimped two times
						5.204	X		Lug was crimped two times
						6.939	X		Lug was crimped two times
95	Draka Prysmian Vultflex 4x95mm2 klasse 5	ICR9510	MI95-CK	AP60-2	5.700	9.448	X		Lug was crimped two times
						8.807	X		Lug was crimped two times
						9.064	X		Lug was crimped two times

Draka

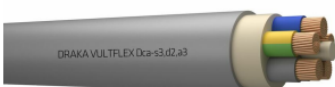
Draka

Draka

VULTFLEX Dca 0,6/1kV gy# 4G70 mm2
824642

VULTFLEX Dca 0,6/1kV gy# 4G95 mm2
824645

HULTFLEX Cca 0,6/1kV gy# 4G70 mm2
826134





cable with unpressed lugs and I-crimp dies



AP60-2: Battery operated hydraulic crimping tool 60kN up to 300mm²



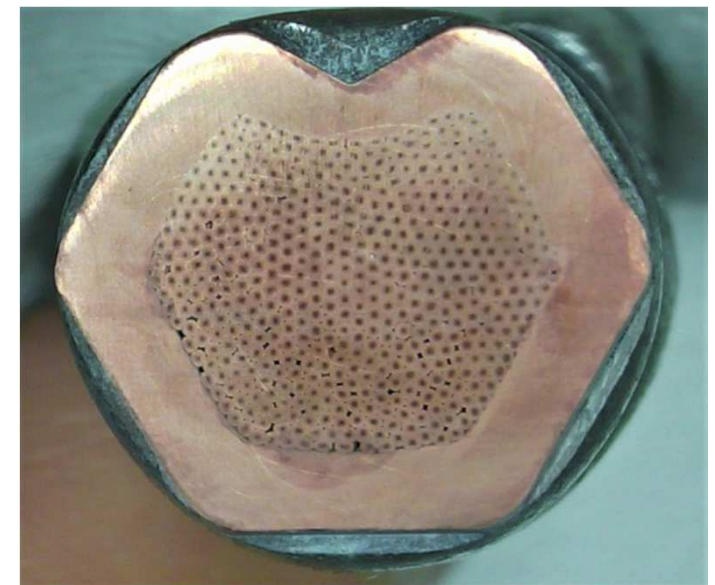
pull compression machine up to 50kN

DIN EN 61238-1: Tensile force for mechanical test: No slipping shall occur during the last minute of the test.

Conductor material: **Copper: 60 x nominal cross sectional area (mm²)** / Used compression tool AP60-2: Battery operated hydraulic crimping tool 60kN for dies series 60-2/4 up to 300mm²



cables that were tested: 4x95(klasse5), 4x70(klasse5) Vultflex and an 4x70(klasse2) Hultflex



The cut shows optimal pressing of the cable and perfect contact with the lug