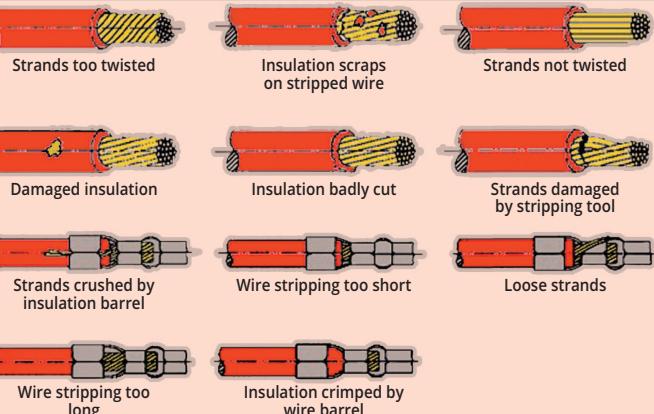


# Mecal GUIDE TO QUALITY CRIMPING

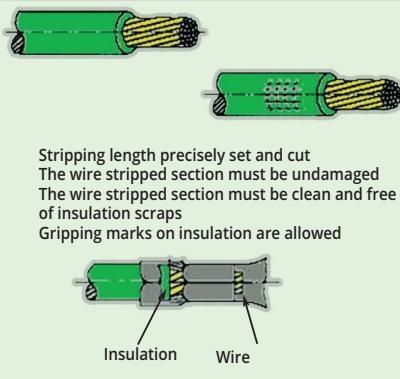
The following information is referred to standard crimping

## General appearance

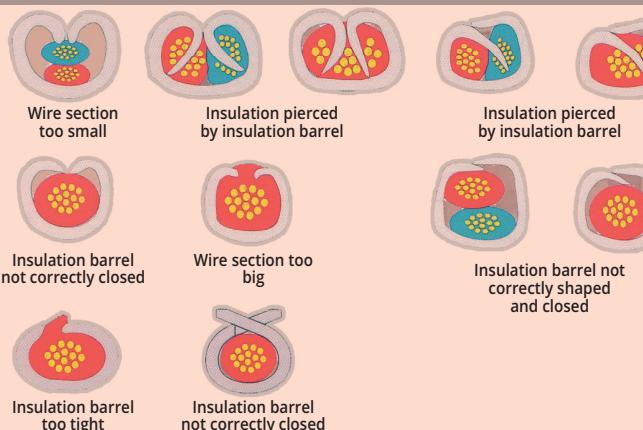
### Unacceptable



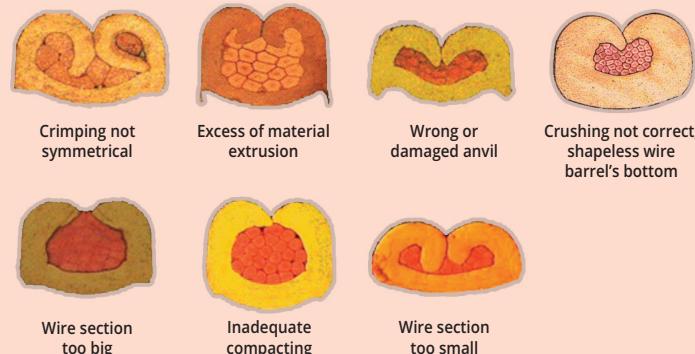
### Acceptable



## Insulation crimping

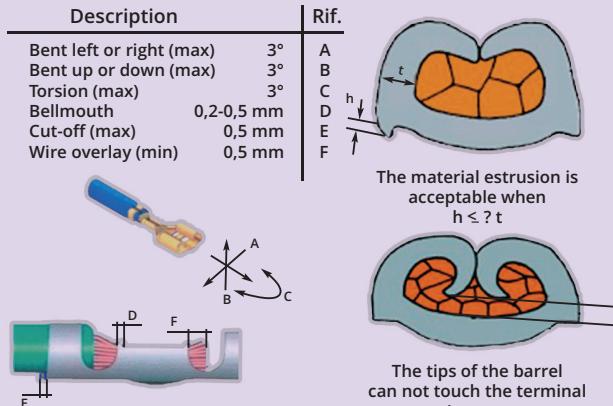


## Wire crimping



### Checks and evaluations

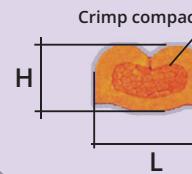
Description	Rif.
Bent left or right (max)	3°
Bent up or down (max)	3°
Torsion (max)	3°
Bellmouth	0,2-0,5 mm
Cut-off (max)	0,5 mm
Wire overlay (min)	0,5 mm



### Crimping height measurement



### H/L ratio and crimp compacting



The H/L ratio is acceptable when within a min of 55% and a max of 70%  
The crimp compacting is the difference between the cross section of the wire + terminal before and after the crimping itself. It is acceptable when within a min of 17% and a max of 24%

### Automotive

Wire sect mm <sup>2</sup>	Min pulling force in Newton	Wire section AWG	Min pulling force in Newton
	Class 1	Class 2	Class 3
0,35	----	34	----
0,5	60	80	80
0,75	70	120	120
1	80	160	160
1,27	----	160	----
1,5	90	200	200
2	----	230	----
2,5	100	250	250
3	----	300	----
4	----	350	350
6	----	450	500
10	----	800	1500
16	----	1400	2400
25	----	1900	3000
35	----	2270	4200
50	----	2800	6000
70	----	3500	8400
95	----	4200	11400

### Electronics/white goods

Wire section mm <sup>2</sup>	Min pulling force in Newton
32	0,03
30	0,05
28	0,08
26	0,12
24	0,2
22	0,33
20	0,5
18	0,75
16	1,25
14	2
12	150
10	Class 1: Terminals with $\varnothing \leq 2,9$ mm/Ampere $\leq 5$ A
8	Class 2: Terminals with $\varnothing > 2,9$ mm/Ampere $> 5$ A
6	Class 3: Cylindrical terminals (to be coined)
Ref:	
DIN EN 60352-2	
Mecal Specifications	

## Pull test