

CONNECTING JOINTS FOR PROFILED CONTACT WIRES

The joint allows connection between new or new and worn contact wires without any tapering operation, assuring a uniform and continuous sliding area of the pantograph; the use of these joints also reduces intervention times to a minimum. In addition to the laboratory tests, on line tests have shown that the joint operates satisfactorily on 180 km/h lines and on lower speed lines but with strong current absorption (gradients).



CONNECTING JOINT TYPE	TORQUE RATIO Nm	GROOVED CONTACT WIRE		
		Section (mm ²)	Ø (mm)	REFERENCE STANDARD
FTGW 100	65	100	12,0	EN 50149 (Type AC-120 or Cu and CuAg 0,1)
FTGW 120		120	12,9	
FTGW 150		150	14,5	

The jointing process can be improved and made quicker by the perpendicular cutting of the contact wire ends to be joined using the appropriate tool:

HYDRAULIC CUTTING HEAD RH-TFC



Contact wire cut with a traditional cutter



Contact wire cut with the RH-TFC hydraulic head

Hydraulic RH-TFC head with interchangeable dies to perform a perfectly perpendicular cut without deformation of the wire shape (see page 49 for the selection of the available tools).



DIE SETS

A wide range of dies is available to cut most profiled contact wires or stranded conductors.



Hydraulic cutting head for cutting profiled contact wires and Copper and Aluminium ropes. Interchangeables cut perpendicularly and without deformation to optimise joint installation.

The use of this head simplifies the cutting operation and reduces the time needed to prepare the joint.

For use with any of the following 700 bar hydraulic pumps:

HTP, manually operated

PO-7000, foot operated

B70M-P24 portable electro-hydraulic 24V DC motor driven, powered by internal battery or external supply.



Contact us for further information

MFC cutting die sets available

Contact Wire Type	Fig.	Cutting Dies
AC80-EN50149	A	MFC-AC80
AC100-EN50149	A	MFC-AC100
AC107-EN50149	A	MFC-AC107
AC120-EN50149	A	MFC-AC120
BC107-EN50149	A	MFC-BC107
BC120-EN50149	A	MFC-BC120
BC150-EN50149	A	MFC-BC150
BF100-EN50149	A	MFC-BF100
BF107-EN50149	A	MFC-BF107
BF120-EN50149	A	MFC-BF120
BF150-EN50149	A	MFC-BF150
137-BS23	A	MFC-137BS
161-BS23	A	MFC-161BS
193-BS23	A	MFC-193BS
FD100-0BB	A	MFC-FD100
FD120-0BB	A	MFC-FD120
100 mm ² GOST R 55647	A	MFC-100RUS
Cu/Steel conductor	B	MFC-D7.5-S
Cu or Al Round rod Ø 10.8	B	MFC-D10.8
Cu or Al Round rod Ø 14.5	B	MFC-D14.5
Cu or Al Round rod Ø 16.1	B	MFC-D16.1