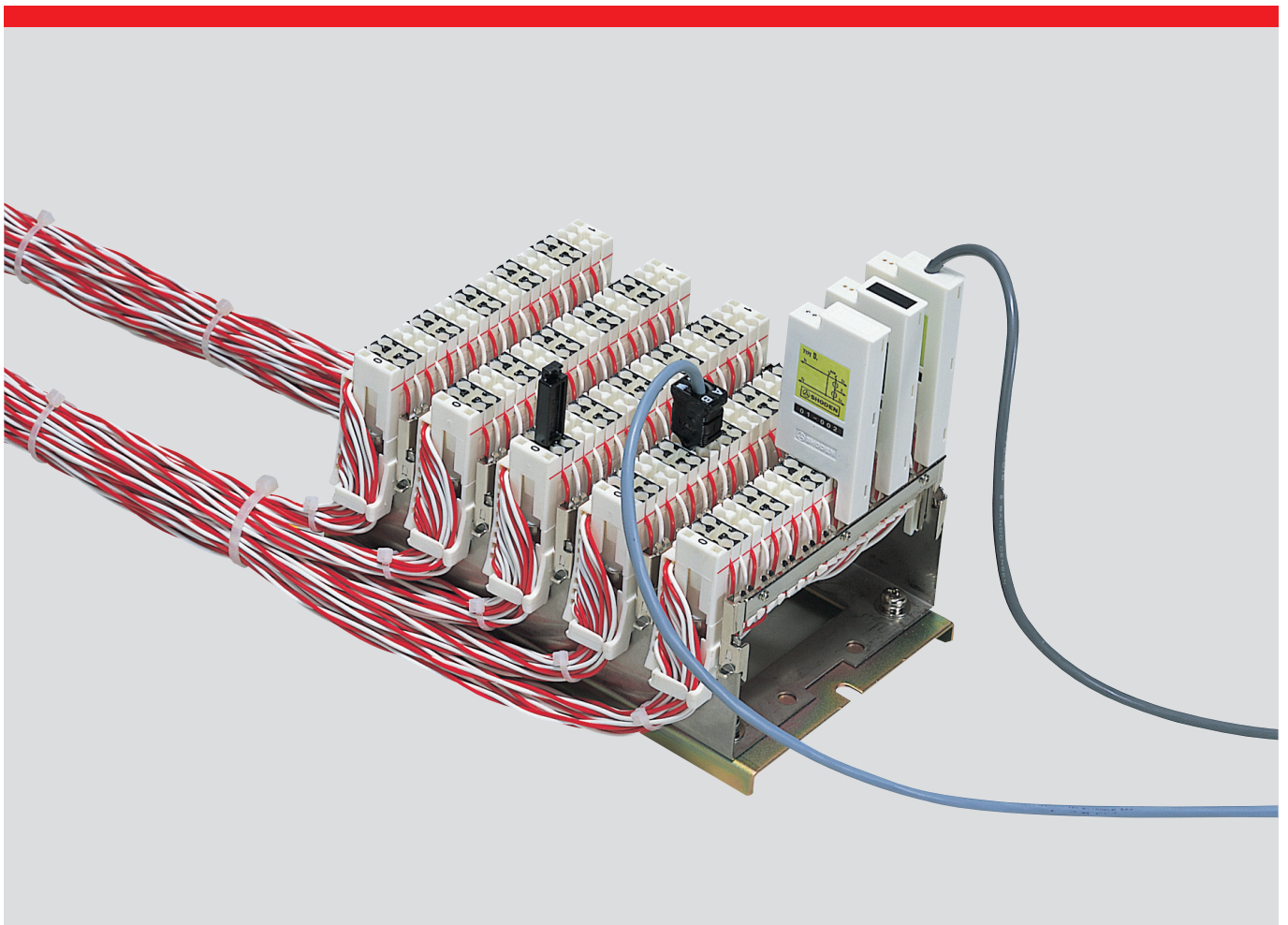


QDP series



High density and non-instantaneous break type protector with elastic contact socket provided with clip connection structure.

This is the protector for telecommunication cables and the suitable type can be selected according to the application like telephone line, carrier transmission line, digital line, measuring and process control line etc. To the elastic contact socket the newest clip connection structure is adopted. So the size of this non-instantaneous break protector can be minimized.

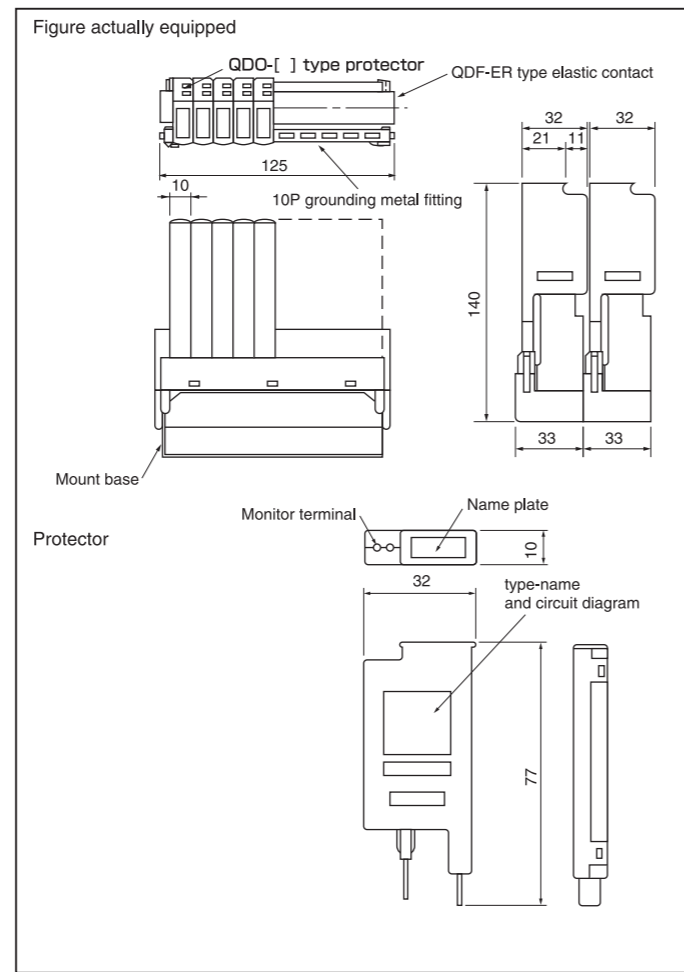
- High density protector with elastic contact socket, to which the newest clip connection structure is adopted.
- Protector plug can be put in and taken out without instantaneous break of line and without bad effect on the telecommunication line.
- According to the application like telephone line, carrier transmission line, digital line, measuring and process control line etc. the most suitable protector can be selected.
- Monitor terminal is equipped. So monitor test can be done in the state actually installed.
- Due to the adoption of the newest clip structure with high reliability power supply for working is not necessary and for every one a uniformed connection with high reliability is possible.
- Connection of not only single core wire, but also twisted wire is also possible.
- By using of jumper guide not only miswiring can be prevented, but also jumper wiring can be done without taking out of elastic contact Appearance after wiring is also excellent.

The way of using

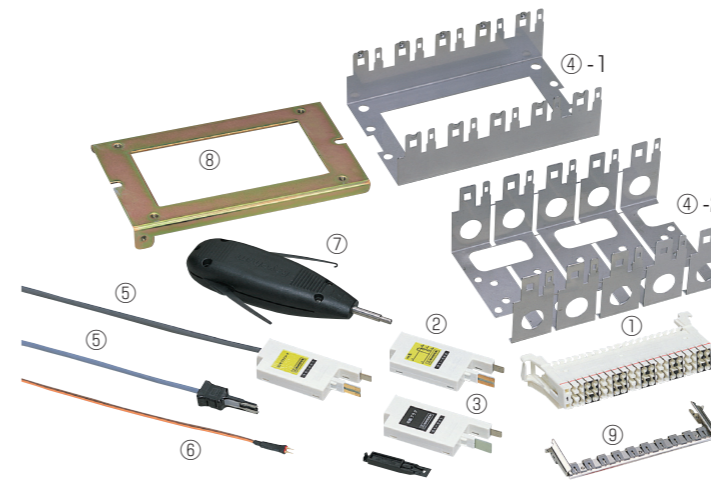
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External figure

unit(mm)



Option parts



- Elastic contact socket (QDF-ER type)
- QDP type protector (QDP- [00] type)
- Line breaking plug (QDP-CT type)
According to the application protector form or clip form can be selected.
- 1 DB mount
(for mounting on MDF, for 180 mm pitch)
- 2 QDF-PM50 (for wooden board)
- Monitor plug-cord for elastic contact socket.
- Monitor cord for protector (QDF-TC type)
- Impact tool (IT type)
- Metal fitting for mounting to the DB mount.
For mounting the DB mount on MDF this metal fitting is necessary. (Besides T metal fitting is also necessary)
- Metal fitting for grounding(QDF-G type)

- ※1 In case that power supply overlapped with the line has no grounding or has grounding at neutral point with high resistance, transmission level becomes 140V, 0.25A and in case that power supply has pendency characteristic, becomes DC220V, 0.25A.
- ※2 Possible to use independently of characteristic impedance of the line. However transmission performance shows the measured value at 600 Ω .
- ※3 Performance of elastic contact socket, in which protector plug is put in, is shown (in the state without plug).
- ※4 The performance of the protector plug including the inside insulation coil is shown (only in the case of S-600B type).
- ※5 Initial max. value means the max. value appeared in the time from the apply of impulse voltage to 10 μs passed. The max. value in operation means the max. value appeared after 10 μs passed and under continuous apply impulse voltage.
- ※6 Under the more lower voltage and current than the given values the following current doesn't appear.
- ※7 [12] for DC 12V is DC13.5V.
[24] for DC 24V is DC27V.
[48] for DC 12V is DC53V.
[65] for DC 12V is DC75V.

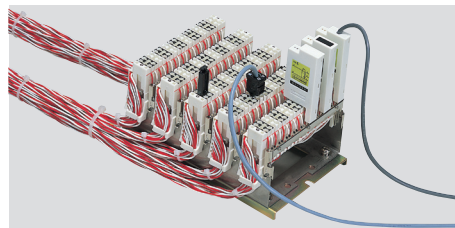
Specification

Type-name	QDP-A2	QDP-B	QDP-HZ	QDP-D		
Type-name according to Japanese standard for electric power D-205	for general use (A) 1a	for general use (A) 2	-	for general use (A) 1a		
Application	for general telephone line	for remote control · carrier transmission line	for signal line (for the equipments with weak current and voltage withstanding)	for general telephone line		
Transmission characteristic	Transmission frequency band (Hz)	DC, 16, 0.3k ~ 3.4K	0.3k ~ 20K	DC, 0.3k ~ 20K		
	Operational attenuation	less than 0.5	less than 0.1			
	Transmission level	+10dBm(DC70V)	+10dBm	DC48V(DC53V)	+10dBm(DC70V)	
	Impedance (Ω)	- ※ 2	600 ± 15%	- ※ 2	- ※ 2	
	DC-resistance (one side line) (Ω)	less than20	-	5 ± 15%	-	
protection performance to abnormal voltage and current	Line side applied voltage	AC4kV 2 second				
	AC	to ground	less than300V	100V	less than300V	
		between lines	less than300V	less than15V	100V	
		less than300V	less than15V	100V	less than300V	
	Impulse	Line side applied voltage	1.2/50 μ s 10kV			
		to ground	initial max. value	less than1500V	less than300V	less than150V
			in operation	less than20V		
		between lines	initial max. value	less than1500V	less than 25V	less than150V
	in operation		less than10V			
	Current	AC	AC4A 2 second			
Impulse		8/20 μ s 4kA				
Indication by specified color	gray	red	yellow	white		

QDP-M II	QDP-DF	QDP-PCM	QDP-TD	QDP-SD1
for general use (A)2	-	for general use (A) 3	for general use (A) 1b	-
for carrier transmission line	for DC signal line	for PCM carrier transmission line	for digital exchange line	
DC, 0.3k ~ 150K	DC, 2M	DC, 50 ~ 2M	DC, 16, 0.3 ~ 400k	DC, 0.3 ~ 200k
less than 0.5		less than 1.0(772kHz)	150kHz less than 0.5	less than 0.5(600 Ω)
+10dBm(DC140V)	DC180V	4Vo-P(DC60V)	400kHz less than 1.5	less than 1.0 (150 Ω)
- ※ 2	- ※ 2	110 ± 20%	150kHz 600, 400kHz 150	600/150
-	-	less than10	less than20	
less than10V		less than 300V	less than10V	
AC4kV 2 second				
less than 300V				
1.2/50 μ s 10kV				
less than1500V	less than1500V	less than 450V		less than 400V
less than 20V	less than 500V	less than 20V		
less than 20V	less than1500V	less than 25V		
less than10V	less than 500V	less than10V		
AC4A 2 second	-	AC4A 2 second		
8/20 μ s 4kA				
green	white	yellow	green	white

Lightning protector for telecommunication cables

QDP series



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