

Copper solutions for carriers



Applications from central office to subscriber terminals with R&M insulation displacement contact technology

 **R&M**

Convincing cabling solutions

R&M – carrier partner

THE RIGHT PRODUCT FOR EVERY APPLICATION

R&M provides comprehensive solutions for the entire network between subscriber and central office. You will find various systems in our product line that are custom-made to the different requirements:

① CENTRAL OFFICE

MAIN DISTRIBUTION FRAMES



020.0305
VS Compact, VS Modular and VS Standard

- 3 systems are available
- packing density
- flexibility
- modularity
- comfort

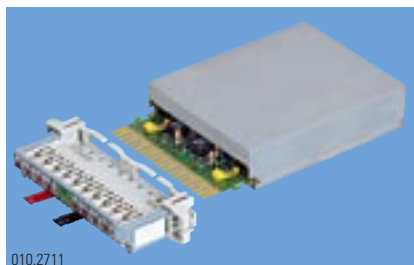
CO-LOCATION



030.0751
VS Compact

- space-saving
- time-saving
- easy installation
- 8 to 25 pair connection modules available

ADSL INTEGRATION



010.2711
VS Compact

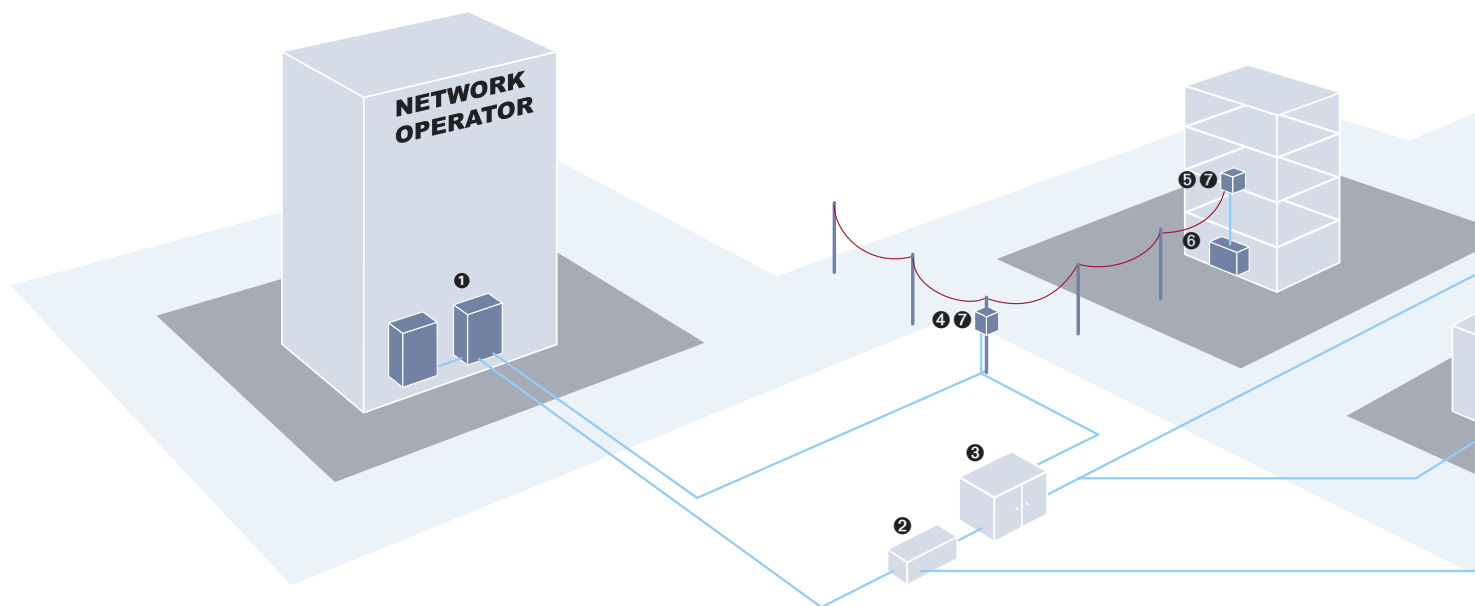
- 4-port splitter cards
- various types available
- conforming to standards
- less cabling
- easy installation
- time-saving

② DISTRIBUTION SPLICE CLOSURES (OSP)



010.2427
Splice Closures

- IP 68 protection
- re-usable
- simple locking system
- various sizes and numbers of inputs/outputs
- chemical resistant



3 DISTRIBUTION POINT (OSP)



CCC

- polycarbonate and polyester
- high packing density with VS Compact 1600 pairs instead of 1200 pairs
- easy access

4 DISTRIBUTION POINT TERMINAL (OSP)

5 SUBSCRIBER TERMINAL (OSP)



Venus

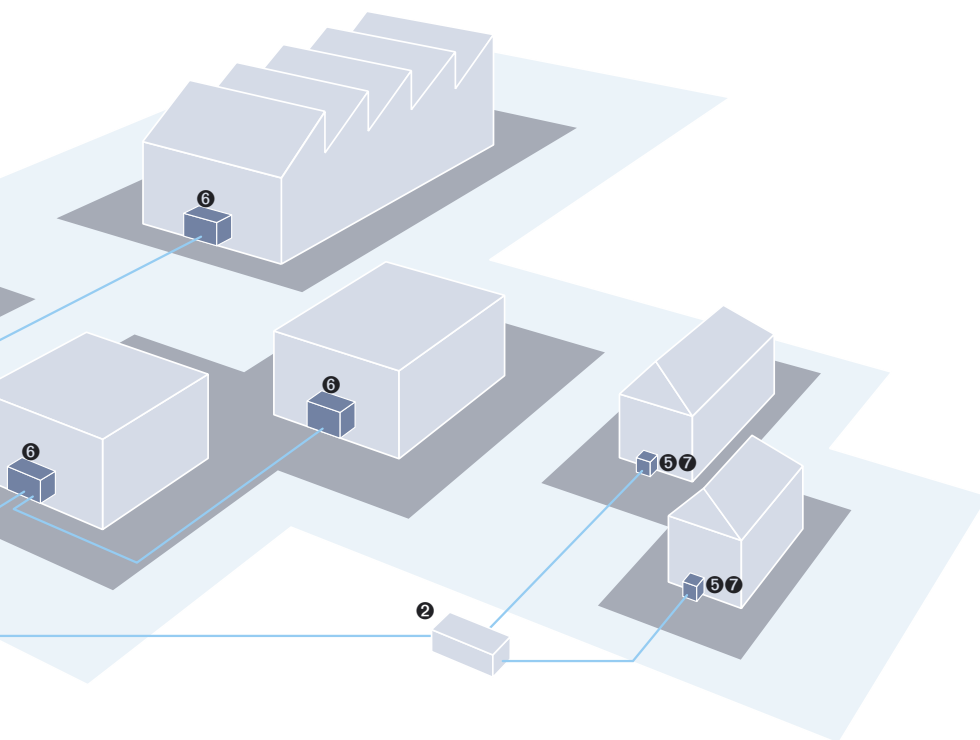
- 3 sizes, 2 to 100 pairs
- can be equipped with connection module, Drop Wire Module and FO
- hybrid solutions available
- up to IP 54
- various locking systems
- weather and UV resistant
- attractive design
- wall and pole installation

6 BUILDING - MDF



Distribution frame

- 3 systems available
- packing density
- flexibility
- modularity
- comfort



OSP MODULE



Drop Wire Module 1 pair

- weather protection
- filled with soft polymer
- can be equipped with over-voltage protection
- disconnection function available
- easy installation on DIN rail
- testing tap available

COPPER DISTRIBUTION SYSTEMS

VS COMPACT

This highly compact system is ideal for locations with limited space. Typical operational areas are remote access applications, CCCs or PABX. Noteworthy features of the VS Compact are the highest transmission values (DDF) and excellent coverage in the designs of 2, 5, 8, 10, 16, 20 and 25 pairs. Moreover, VS Compact allows double wiring and wiring with stranded cables.

VS STANDARD

This generously designed system offers space for cable jumpering and handling. VS Standard features rear protection, a rear contact, allows parallel wiring, and is Cat. 5e-capable. Typical operational areas are PABX applications, cabling systems and partly MDFs.

VS MODULAR

This classic main distributor system offers all the comfort options: rear protection, EMC protection and cable guiding. It also allows double wiring. Its main applications are MDFs and PABX.

DROP WIRE MODULE

An absolutely professional connection system for outdoor use in extreme conditions, providing full protection from dust, humidity, and industrial environment. It is mainly used in outside plant applications (CCCs, distribution point terminals, subscriber terminals).

Copper distribution systems

CORE PRODUCTS – DISTRIBUTION CONNECTION MODULES

R&M carries three different distribution systems and a Drop Wire Module in its line. Depending on the use or customer requirements, one or the other system is suitable, e.g. the VS Compact would be preferred in tight spaces.

Distribution system Features	VS Compact	VS Standard	VS Modular	Drop Wire Module
Design	Connection modules	Connection modules	Connection modules	Connection-/Disconnection mod.
Functions	Disconnection mod. Normally open mod. DDF modules	Disconnection mod. Normally open mod.	Disconnection mod. EMC modules	
Sizes	2, 5, 8, 10, 16, 20 and 25 pairs	8 and 10 pairs	10 and 12 pairs	1 pair
Wires per contact				
Cable side	1	1	1 (2 in Mod. 83)	1
Jumper side	2	2 (parallel)	2 (parallel)	1
Repeated wiring	100	200	200	20
Cable types				
Conductor Ø				
Cable/jumper side	0.35 – 0.80 (0.80)	0.40 – 0.80 (0.65)	0.40 – 0.80 (0.65)	0.40 – 1.00 (1.00)
Insulation Ø				
Cable/jumper side	0.60 – 1.60	0.85 – 1.60 (1.40)	0.85 – 1.60 (1.40)	0.85 – 1.60 (1.60)
Stranded wire capable	Yes	No	No	No
Weather protection				
Filled with soft polymer	No	No	No	Yes
Transmission rate				
Cat. 3	Yes	–	–	Not applicable
Cat. 5e	With booster/DDF	Yes	Yes	Not applicable
Cat. 6	DDF modules	–	–	Not applicable
Packing density				
Grid size	17.5/20/25 mm	22.5/25 mm	30 mm	DIN35 rail
Pairs per m ²	up to 4300 pairs	up to 2100 pairs	up to 1800 pairs	
Protection concept				
Rear protection	No	Voltage	Voltage	Integral arrester
Front protection	Voltage/Current	Current	Current	
EMC/DDF				
Rear shield plate	Yes	No	Yes	No
Materials				
Module body	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Contacts	CuSn6	CuSn6	CuSn6	CuSn6
Surface treatment	Ni 1–2 µm	Ag 5–10 µm	Ag 5–10 µm	Sn 5–8 µm
Disconnection and rear contact	AuCo > 0.8 µm			
IDC	SnPb 2–4 µm			

Please refer also to the individual technical data sheets



010.1536

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