

# RosenbergerHSD® Number Codes

D4	K	1	0	A –	1	xx	A5 –	y		
									Coding	Direction
									A Jet Black / Graphite Black	A cable down, left, right
									B Cream White	B cable down, left, right
									C Signal Blue / Light Blue	C cable down, left, right
									D Claret Violet	D cable down, left, right
									E Leaf Green / May Green	E cable down, left, right
									F Nut Brown	F cable down, left, right
									Z Water Blue (Neutral Coding for cable down, left, right)	Z cable down, left, right
									G Blue Grey	G cable up
									H Heather Violet	H cable up
									J Beige	J cable up
									K Curry	K cable up
									L Yellow Green	L cable up
									M Pastel Orange	M cable up
									O Light Green (Neutral Coding for cable up)	O cable up
									y Blank Coding	y
									Plating Code	
									01-Z9 Cable Group	
									00 Blank	
									0M Surface Mount Device	
									xx Blank Cable Group	
									1 Crimp Version	
									4 PCB Mounting	
									Successive Number	
									0 Standard Cable Down	
									U Cable Up	
									L Cable Left	
									R Cable Right	
									1 Straight Connector	
									2 Right Angle Connector	
									K Female Connector, Jack	
									S Male Connector, Plug	
									W Tool	
									Z Plastic Housings and Accessories	
									Connector Series	
									D4 RosenbergerHSD® Connectors	
									E4 RosenbergerHSD®e Connectors	
									99 Special Products Power Pin (RosenbergerHSD®+2, +4, +8)	

## RosenbergerHSD® Cable Groups

Cable Group	Impedance	Cable Type
D5	100 Ω	e.g. G&G K6750, X6656, LEONI Dacar® 535, 535-2, 636, 636-2
AF	90 ± 15 Ω	e.g. G&G X6238, LEONI Dacar® 566

## RosenbergerHSD®e Cable Group

Cable Group	Impedance	Cable Type
AK	100 Ω	e.g. G&G X7622, LEONI Dacar® 625, unshielded

## RosenbergerHSD® Plating Code

## Outer Contact

Code	Plating	Symbol	Layer thickness	Magnetic properties
A	Nickel	Ni	3.00 µm	
L	AuroDur®	Au	0.15 µm	non magnetic
X	no plating, no outer contact for unshielded RosenbergerHSD®e			

## Center Contact

Code	Plating	Symbol	Layer thickness	Magnetic properties
5	AuroDur®	Au	0.15 µm	non magnetic

The used platings of outer and center contacts of Rosenberger connectors can be identified by each part number.

Example:

D4S20L-40MA5-y

Plating outer contact: Nickel (A)

Plating center contact: AuroDur® (5)

## AuroDur® – the Rosenberger Standard Plating for Gold Surfaces

AuroDur® plating is the standard gold surface for all Rosenberger connector series.

AuroDur® has been developed by the engineering and metallurgical team at Rosenberger, well-experienced in developing electroplating standard and customized surfaces.

The AuroDur® surface consists of a thin gold layer on a non magnetic, chemically deposited layer of nickel:  
min. 2 µm Ni, 0.15 µm Au

AuroDur® gold plating fully satisfies the high mechanical and electrical demands of radio frequency connectors. In contrast to conventional platings, essential characteristics are improved.

## Properties:

- high abrasion and corrosion resistance
- excellent intermodulation
- low contact resistance
- very good solderability
- optimal distribution of layer thickness
- RoHS conform

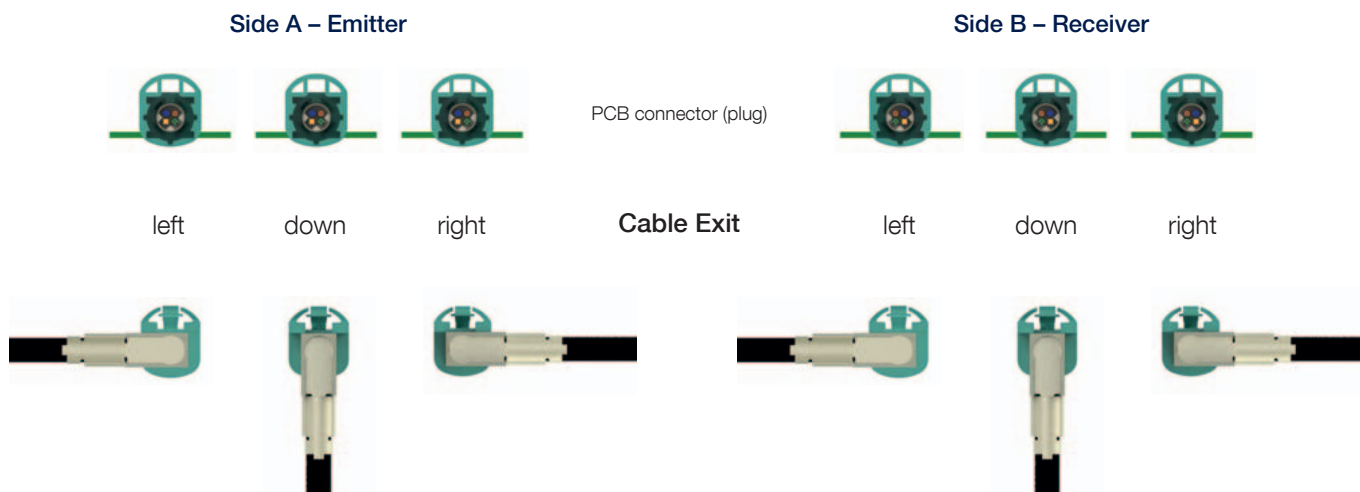
# RosenbergerHSD® Codings

Coding RosenbergerHSD®, HSD®e, HSD®+2, HSD®+4, Cable down, left, right

Coding	Jack	Plug	Color / RAL-Nr.
A			Jet Black / 9005
B			Cream White / 9001
C			Signal Blue / 5005
D			Claret Violet / 4004
E			Leaf Green / 6002
F			Nut Brown / 8011
Z			Water Blue / 5021

Colors of the plastic housings are in accordance with the listed RAL colors, minor color differences during manufacturing are possible.

## Definition Cable Exit down, left, right



Coding RosenbergerHSD®, HSD®e, HSD®+2, HSD®+4, Cable up

Coding	Jack	Plug	Color / RAL-Nr.
G			Blue Gray / 7031 
H			Heather Violet / 4003 
J			Beige / 1001 
K			Curry / 1027 
L			Yellow Green / 6018 
M			Pastel Orange / 2003 
O			Light Green / 6027 

Colors of the plastic housings are in accordance with the listed RAL colors, minor color differences during manufacturing are possible.

Definition Cable Exit up

Side A – Emitter

Side B – Receiver



up

Cable Exit













up



PCB connector (plug)



## Coding RosenbergerHSD® double 8 mm male

Coding	Plug	Color / RAL-Nr.
A		Jet Black / 005 
B		Cream White / 9001 
C		Signal Blue / 5005 
D		Claret Violet / 4004 
E		Leaf Green / 6002 
F		Nut Brown / 8011 
Z		Water Blue / 5021 

## Coding RosenbergerHSD® double 8 mm female

Coding	Jack	Color / RAL-Nr.
A		Jet Black / 9005 
B		Cream White / 9001 
C		Signal Blue / 5005 
D		Claret Violet / 4004 
E		Leaf Green / 6002 
F		Nut Brown / 8011 
Z		Water Blue / 5021 

Colors of the plastic housings are in accordance with the listed RAL colors, minor color differences during manufacturing are possible.

## Coding RosenbergerHSD® double 12.7 mm male

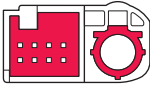

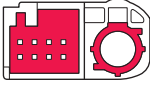

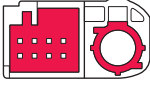

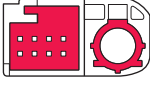

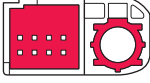

Coding	Plug	Color / RAL-Nr.
A (A+B)		Graphite Black / 9005 
B (B+A)		Cream White / 9001 
C (C+D)		Light Blue / 5012 
D (D+C)		Claret Violet / 4004 
E (E+F)		Mary Green / 6017 
F (F+E)		Nut Brown / 8011 
Z (Z+Z)		Water Blue / 5021 

## Coding RosenbergerHSD® double 12.7 mm female

Coding	Jack	Color / RAL-Nr.
A (A+B)		Graphite Black / 9005 
B (B+A)		Cream White / 9001 
C (C+D)		Light Blue / 5012 
D (D+C)		Claret Violet / 4004 
E (E+F)		Mary Green / 6017 
F (F+E)		Nut Brown / 8011 
Z (Z+Z)		Water Blue / 5021 

Colors of the plastic housings are in accordance with the listed RAL colors, minor color differences during manufacturing are possible.

## Coding RosenbergerHSD®+8 male

Coding	Plug	Color / RAL-Nr.
A		Graphite Black / 9011 
B		Cream White / 9001 
C		Light Blue / 5012 
D		Claret Violet / 4004 
Z		Water Blue/ 5021 

## Coding RosenbergerHSD®+8 female

Coding	Jack	Color / RAL-Nr.
A		Graphite Black / 9011 
B		Cream White / 9001 
C		Light Blue / 5012 
D		Claret Violet / 4004 
Z		Water Blue / 5021 

Colors of the plastic housings are in accordance with the listed RAL colors, minor color differences during manufacturing are possible.