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# TURCK



## Q300 Accessories Antennas and Cables



Products are linked with further information.

# External UHF Antennas

Passive UHF RFID antennas for different applications

The Q300 UHF read/write head can be connected to a maximum of four different external antennas for detecting tags. The advantage is that individual applications have different requirements for the detection range and field characteristics of antennas. This means an in/outbound solution in a distribution center can look different from the production of individual products.

## Logistics

For logistics processes to run smoothly, incoming and outgoing goods must be detected shortly before they are unloaded from or loaded onto the truck. The pre-programmable multiplex operating concept of the Q300 read/write head responds to the antennas alternately to ensure rapid detection of all tags on the pallets. The tags are reliably detected, even when the truck passes through at high speed and regardless of the position and distance of the tags in relation to the antennas. These advantages make it possible to use the large antennas that are often associated with logistics applications. These antennas generally benefit from high reading ranges as well as a small opening angle, allowing them to provide a concentrated field distribution and thus focus on detecting the tags on the pallet.



Gate applications in logistic processes

## Production

Small antennas are ideal for detecting individual products or goods during production. These antennas work well when mounted on conveyor belts as they do not require much space. These antennas are often used for single-tag applications with shorter ranges than those associated with logistics applications (short-range or mid-range). The distance between the tag and the antenna is often quite short in single-tag applications (e.g. less than 1 m). A low radiated power is therefore sufficient to reliably detect the tag.



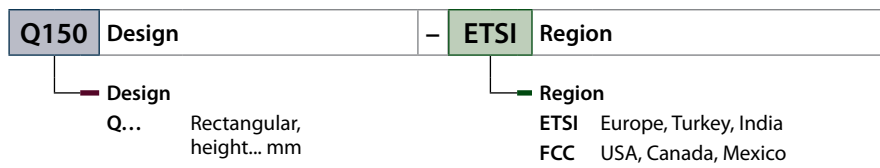
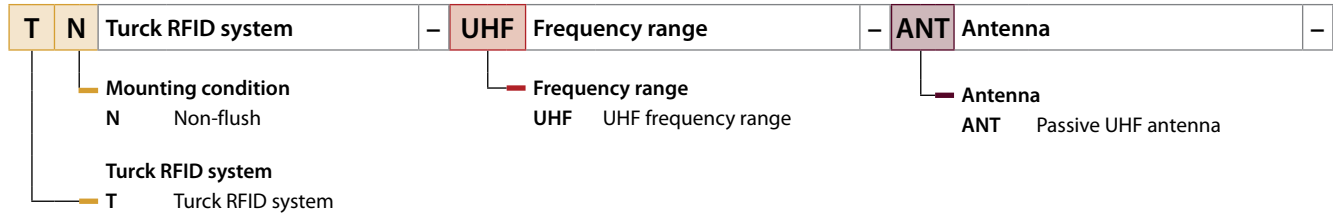
Detection of individual production goods on a conveyor belt

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# Type Code – External UHF Antennas

**T** **N** - **UHF** - **ANT** - **Q150** - **ETSI**





# External UHF Antennas

## TN-UHF-Q150...

	Ident-No.	Type designation	Description
	100028594	<a href="#">TN-UHF-ANT-NF-Q150-ETSI-FCC</a>	Suitable for global use 865-928 MHz External UHF near field antenna for ranges up to approx. 10 cm, dimension 150 × 150 mm
	100028595	<a href="#">TN-UHF-ANT-Q150-ETSI</a>	Suitable for operation in the ETSI frequency range 865-868 MHz External UHF antenna for ranges up to approx. 2 m, dimension 150 × 150 mm
	100028596	<a href="#">TN-UHF-ANT-Q150-FCC</a>	Suitable for operation in the FCC frequency range 902-928 MHz
Accessories	Ident-No.	Type designation	Description
	100028607	<a href="#">TN-UHF-ACCSY-Q150-PROTECT</a>	Protective plate for SMA connection against mechanical damage



## TN-UHF-Q250...

	Ident-No.	Type designation	Description
	100028599	<a href="#">TN-UHF-ANT-Q250-ETSI</a>	Suitable for operation in the ETSI frequency range 865-868 MHz External UHF antenna for standard indoor gate applications, dimension 250 × 250 mm, VESA100 pins
	100028600	<a href="#">TN-UHF-ANT-Q250-FCC</a>	Suitable for operation in the FCC frequency range 902-928 MHz
Accessories	Ident-No.	Type designation	Description
	100028606	<a href="#">TN-UHF-ACCSY-Q250-PROTECT</a>	Protective plate for SMA connection against mechanical damage


### Note

Upon request, Q250 antennas without integrated VESA100 bracket are also available.

## TN-UHF-Q280...

	Ident-No.	Type designation	Description
	100028601	<a href="#">TN-UHF-ANT-Q280-ETSI</a>	Suitable for operation in the ETSI frequency range 865-868 MHz External UHF antenna, dimension 280 × 280 mm
	100028602	<a href="#">TN-UHF-ANT-Q280-FCC</a>	Suitable for operation in the FCC frequency range 902-928 MHz
Accessories	Ident-No.	Type designation	Description
	100028605	<a href="#">TN-UHF-ACCSY-Q280-VESA100</a>	Adapter plate for mounting on a VESA100 bracket

## Accessories for all antennas

Accessories	Ident-No.	Type designation	Description
	100029071	<a href="#">TN-UHF-ACCSY-VESA100-MOUNT</a>	Bracket



Products are linked with further information.

# Type Code – Coaxial Cable

**T** - **UHF** - **CBL** - **HF240** - **RPTNC** - **12** - **N-M**

**T** Turck RFID system - **UHF** Operating frequency - **CBL** Extension cable -

Turck RFID system

Operating frequency  
UHF UHF frequency range

Extension cable  
CBL Extension cable for external UHF antennas

**HF240** Cable type - **RPTNC** Grip A - **12** Cable length -

Cable type  
RG58 Coaxial cable, RG58  
RG213 Coaxial cable, RG213  
HF240 Coaxial Cable, HF240

Design  
RPTNC RP-TNC connector,  
N-M N-type male connector  
N-F N-type female connector

Cable length  
... .. m

**N-M** Grip B

Design  
RPTNC Connector, RP-TNC  
N-M N-type male connector  
N-F N-type female connector  
SMA SMA female connector

# Coaxial Cable

HF240

Dimensions	Ident-No.	Type designation	Description
	100028191	<a href="#">TN-UHF-CBL-HF240-RPTNC-1-SMA</a>	HF240 coaxial cable with SMA connection
	100028192	<a href="#">TN-UHF-CBL-HF240-RPTNC-2-SMA</a>	
	100028193	<a href="#">TN-UHF-CBL-HF240-RPTNC-4-SMA</a>	
	100028194	<a href="#">TN-UHF-CBL-HF240-RPTNC-6-SMA</a>	
	100028195	<a href="#">TN-UHF-CBL-HF240-RPTNC-8-SMA</a>	
	100028196	<a href="#">TN-UHF-CBL-HF240-RPTNC-10-SMA</a>	
	100028197	<a href="#">TN-UHF-CBL-HF240-RPTNC-12-SMA</a>	

## Technical data

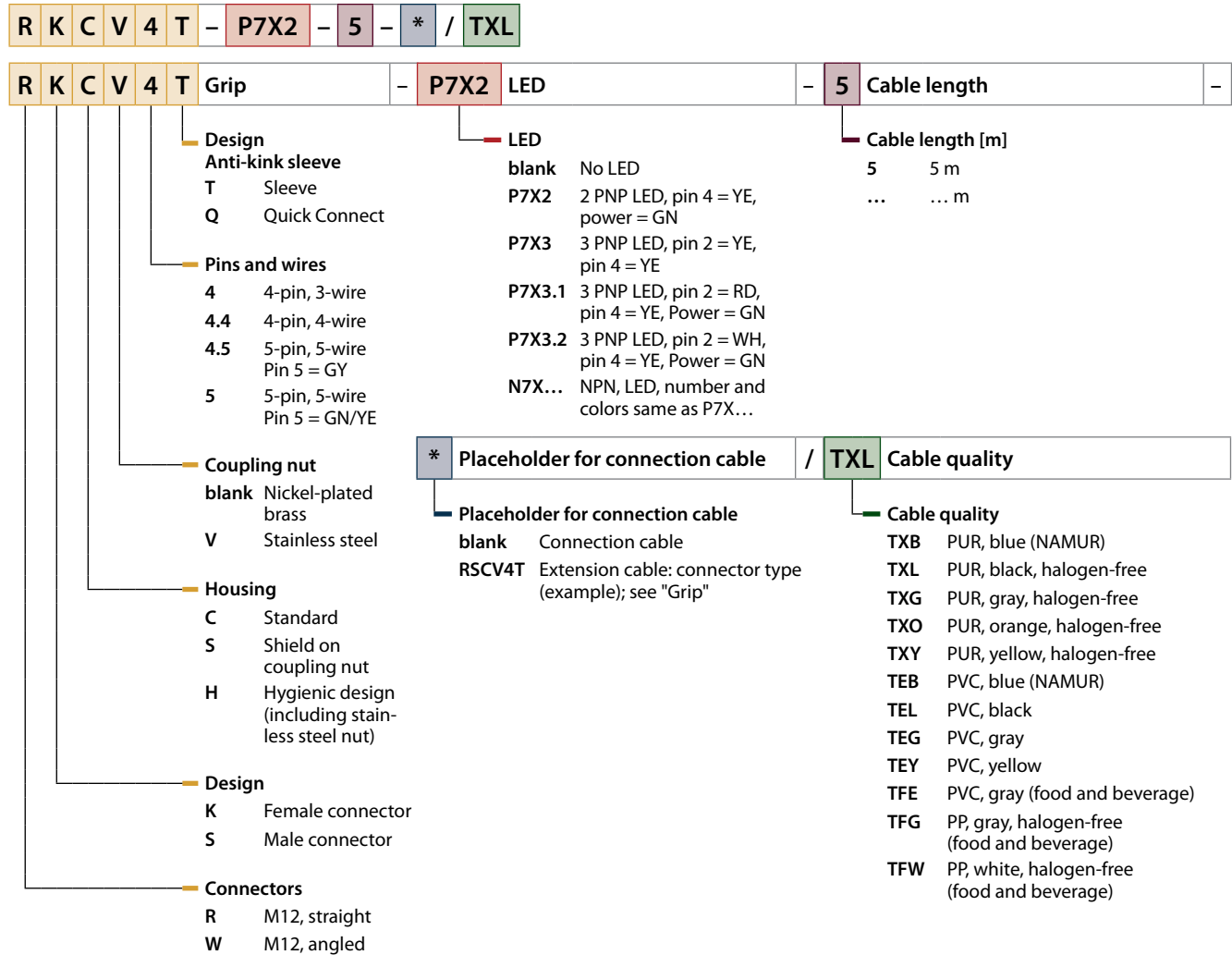
	HF240
Diameter [mm]	6,1
Cable attenuation	Low
Mechanical properties	Compromise between flexibility and mechanical load capacity
Max. length [m]	12



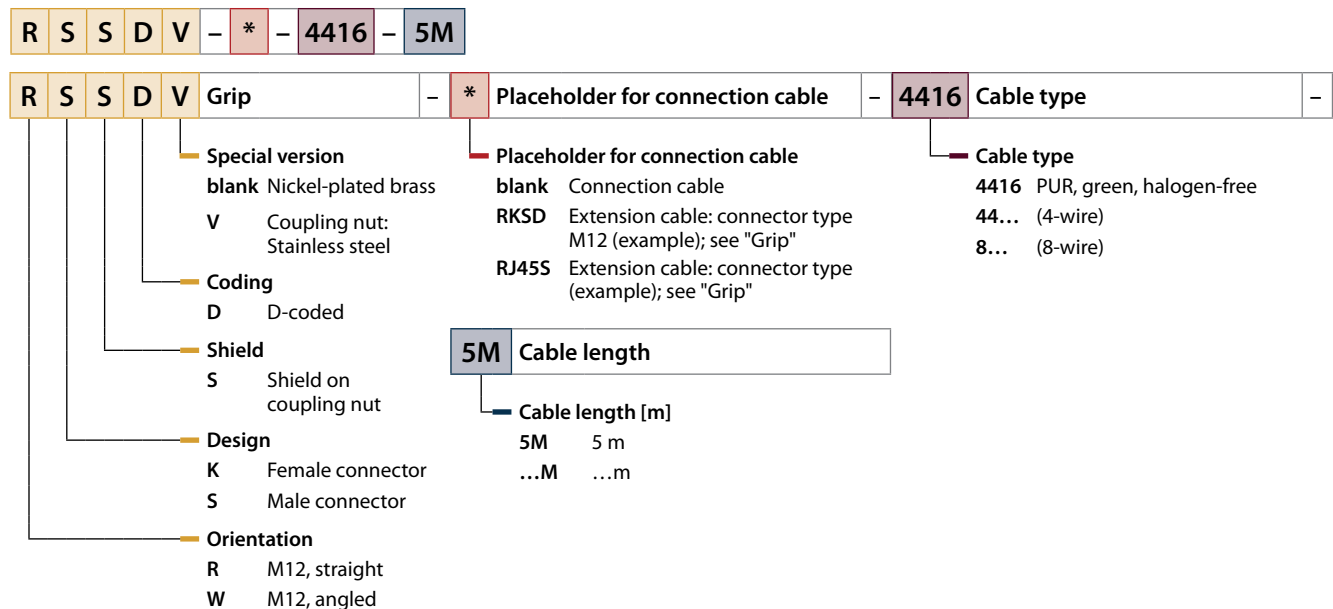
Products are linked with further information.

# Type Code – Cables

I/O signals – M12



Ethernet





# Cables

## I/O signals – M12

Dimensions	Ident-No.	Type designation	Length	Description
	6625601	<a href="#">RKC4T-0,3-RSC4T/TXL</a>	0.3 m	M12, 4-pin, 3-wire, female straight, male straight (for DXP – 1 channel)
	6625602	<a href="#">RKC4T-0,6-RSC4T/TXL</a>	0.6 m	
	6625603	<a href="#">RKC4T-1-RSC4T/TXL</a>	1 m	
	6625604	<a href="#">RKC4T-2-RSC4T/TXL</a>	2 m	
	6625730	<a href="#">RKC4T-5-RSC4T/TXL</a>	5 m	
	6626393	<a href="#">RKS4.5T-0,3-RSS4.5T/TXL</a>	0.3 m	M12, 5-pin, 5-wire, shielded, female straight, male straight (for DXP – 2 channel)
	6626394	<a href="#">RKS4.5T-0,6-RSS4.5T/TXL</a>	0.6 m	
	6626395	<a href="#">RKS4.5T-1-RSS4.5T/TXL</a>	1 m	
	6626396	<a href="#">RKS4.5T-2-RSS4.5T/TXL</a>	2 m	
	6626464	<a href="#">RKS4.5T-3-RSS4.5T/TXL</a>	3 m	
	6627630	<a href="#">RKS4.5T-5-RSS4.5T/TXL</a>	5 m	
	6626815	<a href="#">RKS4.5T-10-RSS4.5T/TXL</a>	10 m	

## Ethernet

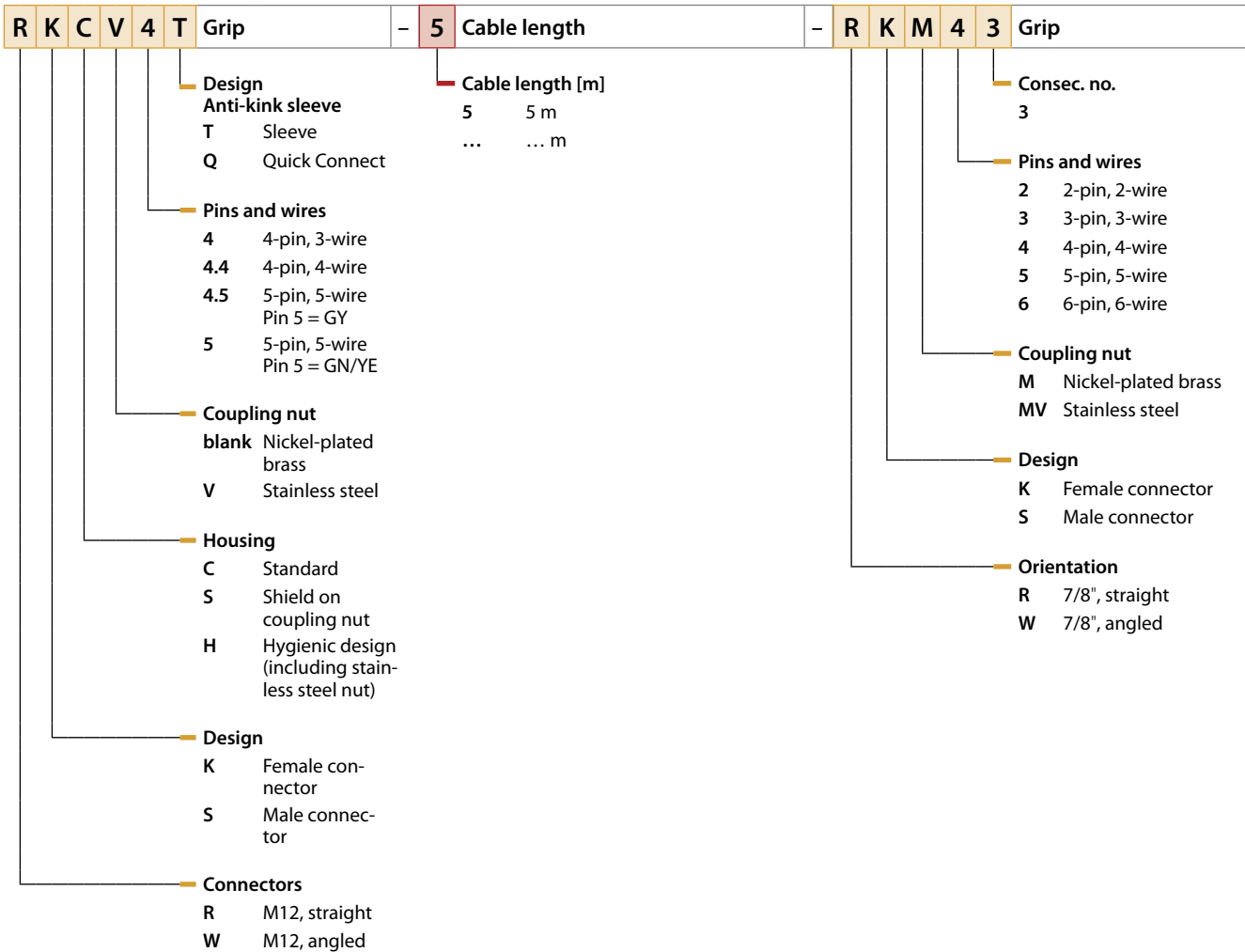
Dimensions	Ident-No.	Type designation	Length	Description
	6441631	<a href="#">RSSD-RJ45S-4416-2M</a>	2 m	M12, 4-pin, to RJ45, male straight, female straight
	6441633	<a href="#">RSSD-RJ45S-4416-5M</a>	5 m	
	6441637	<a href="#">RSSD-RJ45S-4416-10M</a>	10 m	



Products are linked with further information.

# Type Code – Power Supply

R K C V 4 T - 5 - R K M 4 3



# Power Supply

Dimensions	Ident-No.	Type designation	Length	Description
	UX18415	<a href="#">RKC 4.4T-0.5-RSM 40/S3520</a>	0,5 m	M12 to 7/8", 4-pin, female straight, male straight
	UX18416	<a href="#">RKC 4.4T-2-RSM 40/S3520</a>	2 m	
	UX14184	<a href="#">RKC 4.4T-3-RSM 40/S3520</a>	3 m	
	UX14185	<a href="#">RKC 4.4T-5-RSM 40/S3520</a>	5 m	
	6625524	<a href="#">RKC4T-2/TXL</a>	2 m	M12, 4-pin, 3-wire, male straight, end open
	6625525	<a href="#">RKC4T-5/TXL</a>	5 m	



Products are linked with further information.

# Accessories – Signal Lights

Dimension drawing	Ident-No.	Type code	Description
	3087256	<a href="#">TL50HGRA6PQMA-87256</a>	Tower light, protection class IP67, protection against electromagnetic and high-frequency interference, operating voltage: 18...30 VDC or 24 VAC, integrated microcontroller, activation of the colors and beeper via pin 2 and 4, inputs: PNP/NPN, colors: Green (COL 1), Yellow (COL 2), Beep (COL 1 and COL 2)
	3091210	<a href="#">TL50BLGYR6QPMA-91210</a>	Tower light, protection class IP67, protection against electromagnetic and high-frequency interference, operating voltage: 18...30 VDC or 24 VAC, integrated microcontroller, activation of the colors and beeper via pin 2 and 4, inputs: PNP/NPN, colors: Green (COL 1), Yellow (COL 2), Red (COL 1 and 2)
	3094576	<a href="#">TL50BLGY1R26PQ-94576</a>	Tower light, protection class IP67, protection against electromagnetic and high-frequency interference, M12 connector x 1, operating voltage: 18...30 VDC or 24 VAC, integrated microcontroller, activation of the three colors via pin 2 and 4, inputs: PNP/NPN, colors: Green (COL 1), Yellow rotating (COL 2), Red flashing (COL 1 and 2)



Products are linked with further information.

# Accessories – Display Lights

The display lights are supported with the following type code:

Product family	Color 1	Color 2	Color 3	Input	Connection
CL50	G (green)	X (not used)	G (green)	P (PNP)	Q (connector, M12 x 1)
K30L	B (blue)		B (blue)		QP (cable with connector, M12 x 1)
K50B(C)L	Y (yellow)		Y (yellow)		
K50FL	R (red)		R (red)		
K50L	W (white)		W (white)		
K50LD	X (not used)		X (not used)		
K80FDL					
K80L					
M18					
S18DL					
S18DLH					
S18L					
S22DL					
S22DLH					
S22L					
T18					
T30					
T8L					

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100004525 | 2021/07



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