

# Building description

## WeWash Care communal laundry room

### 1. General description of the construction work

**Purpose:** • Communal laundry room

### 2. Appliances

**Dimensions:** • Washer: Depth = 59 cm, Width = 59.8 cm, Height = 84.8 cm  
• Dryer: Depth = 59.9 cm, Width = 59.8 cm, Height = 84.2 cm

**Accessories:** • Each appliance is connected to a WeWash Box.  
• Each bundle (appliance and WeWash Box) requires a Schuko socket and water connections. For further specifications, see the section on electricity and water.

### 3. WeWash Boxes

**Dimensions:** • Depth: 8.3 cm, Width: 36 cm, Height: 18 cm

**Position:** • Height: Lower edge of the box at 110 cm above the floor  
• Directly next to the appliance installation site  
• Alignment: In the centre of the appliance installation site

### 4. Mobile Communication Box

**Dimensions:** • Depth: 8.3 cm, Width: 18 cm, Height: 18 cm

**Position:** • Height: Bottom edge of the box at 140 cm above the floor  
• Position:  
- Between appliances and window  
- As close as possible to a window or light shaft, if available

**Accessories:** • External antenna: Each Mobile Communication Box is connected to an antenna via an antenna cable  
• Antenna cable:  
- Standard: Length of the antenna cable = 50 cm cable. Prerequisite: good LTE reception in the laundry room, i.e. reception value rssi  $\geq$  -85  
- Individual: Length of the antenna cable as required between 3-50 m. Prerequisite: lack of LTE reception in the laundry room, i.e. reception value rssi  $\leq$  -85

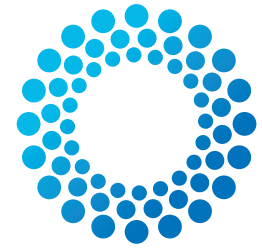
### 5. LTE Antenna

**Dimensions:** • Antenna: Depth: 5.5 cm, Width: 18 cm, Height: 24.8 cm

**Position:** • If LTE reception in the laundry room is good, i.e. reception value rssi  $\geq$  -85:  
- Installation in the laundry room  
- Height: approx. 200 cm above the ground  
- Position: Above the top edge of the Mobile Communication Box  
• If LTE reception in the laundry room is poor, i.e. reception value rssi  $\leq$  -85:  
- Installation outside the laundry room  
- E.g. light shaft, external façade  
- Prerequisite: Location shows good LTE reception, i.e. reception value rssi  $\geq$  -85  
- The antenna cable must be routed from the laundry room to the antenna position

**Attachment:** • Wall mounting with 2 screws and dowels

**Technical details:** • Omnidirectional antenna, see Appendix



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#### 6. Power

##### Number of connections:

- 1x Schuko socket (230 V) per planned washer / dryer (required for WeWash Box)
- 1x Schuko socket (230 V) per Mobile Communication Box (usually 1x per laundry room)

##### Specification Schuko sockets:

- Surface-mounted socket
- Suitable for damp locations Type F (exception Switzerland, here Type 13 applies)

##### Position:

- 1x Socket per WeWash Box (and therefore per washer / dryer)
  - Socket height: 100 cm above the ground (Laundry room with stacking: the 2nd socket 140 cm above the floor)
  - Position:
    - Directly next to the appliance installation site
    - Alignment: Right-justified at the appliance installation site
- Socket per Mobile Communication Box
  - Socket height: 140 cm above the ground
  - Position:
    - Between appliances and windows
    - Alignment: Right-justified from Mobile Communication Box position

#### 7. Water

##### Fresh water:

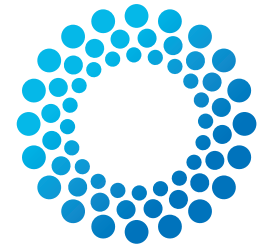
- Per washer
  - Cold water supply
  - Specification:
    - Closable cold water connection
    - 3/4" male thread (flat sealing)
  - Position:
    - 60 cm above the ground
    - Directly next to the appliance installation site

##### Waste water:

- Per washer
  - Specification for washer hose: Diameter of hose nozzle = 2 cm
  - Position:
    - 40 cm above the ground
    - Directly next to the appliance installation site
- Per dryer
  - Specification for dryer hose: Diameter of hose nozzle = 0.8 cm
  - Position:
    - 40 cm above the ground
    - Directly next to the appliance installation site

#### 8. WLAN for users (optional)

- WLAN: Not necessary to operate WeWash and therefore optional.
- However, convenient for users as the WeWash app only works with the Internet. With Wi-Fi, the users can book the appliances directly in the laundry room by using their mobile phone. Therefore, a Wi-Fi network is recommended for users in the laundry room.



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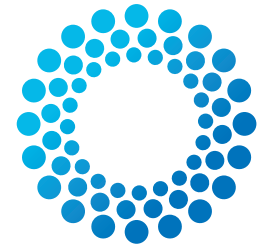
### WeWash Care communal laundry room

#### 9. Appendix

##### Technical data omnidirectional antenna

Manufacturer:	JARFT
Modell:	J4GMB-12-OMOA
Antenna type:	LTE Omnidirectional Antenna (2x2 MIMO)
Power gain:	8dBi @ 800 MHz (GSM, LTE 800) 12dBi @ 1800MHz (UMTS, LTE 1800) 12dBi @ 2600MHz (LTE 2600)
Impedance:	50 Ohm
Frequency range:	791-862 MHz (GSM, LTE 800) 1700 - 2100 MHz (UMTS, LTE 1800) 2500 - 2700 (LTE 2600)
VSWR:	max. 1.8
Grounding:	Direct current grounding (DC ground)
Signal aperture angle:	360° horizontal 20° vertical
Connection:	2 x N socket
Application area:	Indoor and outdoor
Operating temperature:	-30°C to 75°C
Dimensions:	24.8 cm (H) x 18cm (W) x 5.5 cm (D)
Weight:	400 g
Colour:	White





# Building description

## WeWash Care communal laundry room

WeWash

### Technical data antenna cable

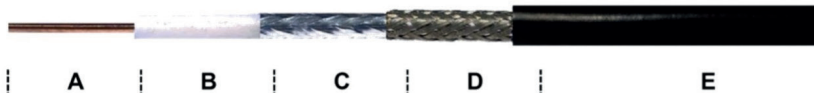
## RF 240 LSNH

DOUBLE SCREENED 50 OHM RF COAXIAL CABLE  
IN ACCORDANCE TO : IEC 60754-1 IEC 60754-2 IEC 61034-2



Class CPR **E<sub>ca</sub>**

CU      PEE      LAS      CS      LSZH  
ø 1,40 mm    ø 3,80 mm    ø 3,90 mm    ø 4,40 mm    ø 6,10 mm



### MECHANICAL DATA

<b>A</b>	<b>INNER CONDUCTOR</b>	PLAIN COPPER	.....	ø 1,40 mm
<b>B</b>	<b>DIELECTRIC</b>	FOAM POLYETHYLENE	.....	ø 3,80 ± 0,10 mm
<b>C</b>	<b>SHIELD</b>	ALL + PET + ALL ADHESIVE TAPE		h. 15 mm
		- COVERAGE	.....	100%
<b>D</b>	<b>BRAID</b>	TINNED COPPER	.....	112 x 0,12 mm
		- COVERAGE	.....	80%
<b>E</b>	<b>SHEATH</b>	FLAME RETARDANT NON-CORROSIVE THERMOPLASTIC FREE OF HALOGENS		ø 6,10 ± 0,10 mm
	- COLOUR	<b>BLACK - RAL 9004</b>		
	- PRINTING	RF 240 LTA-ZH 50 OHM    LOW LOSS CABLE    LSZH    1,40 / 3,80 / 6,10		
		MADE IN ITALY    CE    56    WEEK/YEAR    EN 50575:2014 + A1:2016    Eca		

### MINIMUM BENDING RADIUS ( mm )

- SINGLE	ø EXTERNAL X 5
- REPEATED	ø EXTERNAL X 10
<b>TEMPERATURE RANGE</b>	-30 °C / +70 °C

### CABLE WEIGHT ( Kg/Km )

- COPPER	25,9
- PLASTIC	26,0
- TOTAL	53,7

### ELECTRICAL PROPERTIES at 20°C

<b>IMPEDANCE</b>	50 ± 3 Ohm	<b>RESISTANCE</b>	
<b>CAPACITANCE</b>	80 pF/m	- INNER CONDUCT.	11,5 Ohm/Km
<b>VELOCITY RATIO</b>	84%	- BRAID	14,5 Ohm/Km
		<b>TENSION</b>	
		- SHEATH	4,5 kV
		<b>SPARK TESTING</b>	

### ATTENUATIONS dB/100 m.

		dB	W
5	MHz	1,9	3536
10	MHz	2,7	2500
30	MHz	4,4	1443
50	MHz	5,6	1118
150	MHz	9,5	645
220	MHz	11,7	533

### MAX. POWER RATING W

		dB	W
450	MHz	17,4	373
600	MHz	20,2	323
800	MHz	23,5	280
900	MHz	24,7	264
1000	MHz	26,4	250
1500	MHz	32,9	204

		dB	W
1800	MHz	36,4	186
2000	MHz	39,1	177
2500	MHz	43,8	158
3000	MHz	48,6	144
5200	MHz	67,4	110
5800	MHz	71,8	104

### STRUCTURAL RETURN LOSS dB

30 ÷ 450	MHz	>25
450 ÷ 1000	MHz	>20
1000 ÷ 2000	MHz	>17

### SCREENING EFFECTIVENESS dB

2000 ÷ 3000	MHz	>16	100 ÷ 900	MHz	>95
3000 ÷ 4000	MHz	>15	900 ÷ 2000	MHz	>85
4000 ÷ 5800	MHz	>11	2000 ÷ 3000	MHz	>75

The producer reserves himself to make modification on the item without any notice.