



# Elliptical Waveguide and Accessories

Product Guide

November 2020: Revision B

COMMSCOPE®

## Standard Product Offerings

Freq. (GHz)	Waveguide Family	Waveguide Output	EIA (Imperial) CPR-G	IEC (metric) PDR / PBR
<b>1.7 – 2.3</b>	EW17*	EW17*	117ET	–
<b>2.1 – 2.7</b>	EW20*	WR340	120E	–
<b>2.7 – 3.4</b>	EW28*	WR284	128AE	–
<b>3.4 – 4.2</b>	EW37	WR229	137SE	137SEM
<b>4.4 – 5.0</b>	EW43	WR187	143SE	143SEM
<b>5.0 – 6.425</b>	EW52	WR159 WR137	152SE 252SE	– 252SEM
<b>5.725 – 7.125</b>	EW63	WR137	163SE	163SEM
<b>6.425 – 7.75</b>	EW64	WR137 WR112	164SE 264SE	164SEM 264SEM
<b>7.125 – 8.5</b>	EW77	WR137 WR112	– 177SE	277SEM 177SEM
<b>8.5 – 9.8</b>	EW85	WR90	–	–
<b>10.0 – 11.7</b>	EW90	WR90	190SE	190SEM
<b>11.7 – 13.25</b>	EW127A	WR75	–	1127SCM
<b>13.75 – 15.35</b>	EW132	WR75 WR62	– –	2132SCM 1132SCM
<b>17.3 – 19.7</b>	EW180	WR51 WR42	– –	2180SEM 1180SCM
<b>21.2 – 23.6</b>	EW220	WR42	–	1220ASCM
<b>24.0 – 26.5</b>	EW240	WR42	–	1240SCM

**\* Special order only**

Other products may be available. Refer to individual EW-series' sheets for full range of solutions

Note: All images herein are generic and may not be representative of actual product

## EW17 Series (Special Order Only)



Freq. (GHz)	Waveguide	Grade	Jacket Type	VSWR	Return Loss (dB)	Bending Tool Kit	Flaring Tool Kit	Saw Guide	Hoisting Grip
1.7 - 2.3	EW17	Standard	Black PE jacket	1.25	19.1	EWBTK-5	N/A	N/A	34759
1.7 - 2.1	EWP17-17	Premium	Black PE jacket	1.19	21.2				
1.9 - 2.3	EWP17-19	Premium	Black PE jacket	1.17	22.1				

### Connectors



Output Flange	WG Connector
CPR430G	117ET
Splice	117Z

### Auxiliary Products



Pressure Window	Termination Load	Blanking Plate
N/A	N/A	N/A
N/A	N/A	N/A

### Accessories

Grounding Kits	Product #
Grounding Kit 24"	204989-6
Grounding Kit 60"	N/A
Universal Grounding Kit	N/A
Tower Attachment Kits	Product #
Standard Hanger Kit	31766A-9
Snap-in Hanger Kit	N/A
Angle Adapter	31768A / 31768A-M
Entry Equipment	Product #
Single Entry Panel 4"	N/A
Boot Assembly 4"	N/A
Boot Assembly 5"	N/A



## EW20 Series (Special Order Only)



Freq. (GHz)	Waveguide	Grade	Jacket Type	VSWR	Return Loss (dB)	Bending Tool Kit	Flaring Tool Kit	Saw Guide	Hoisting Grip
2.1 - 2.7	EW20-21W	Standard	Black PE jacket	1.15	23.1	EWBTK-5	N/A	N/A	34759
2.5 - 2.7	EW20-25	Standard	Black PE jacket	1.15	23.1				
2.3 - 2.4	222040-10	Standard	Unjacketed	1.15	23.1				

## Connectors



Output Flange	WG Connector
CPR430G	120E
Splice	120Z

## Auxiliary Products



Pressure Window	Termination Load	Blanking Plate
N/A	N/A	N/A
N/A	N/A	N/A

## Accessories

Grounding Kits	Product #
Grounding Kit 24"	204989-6
Grounding Kit 60"	N/A
Universal Grounding Kit	N/A
Tower Attachment Kits	Product #
Standard Hanger Kit	31766A-10
Snap-in Hanger Kit	N/A
Angle Adapter	31768A / 31768A-M
Entry Equipment	Product #
Single Entry Panel 4"	N/A
Boot Assembly 4"	N/A
Boot Assembly 5"	N/A



## EW28 Series (Special Order Only)



Freq. (GHz)	Waveguide	Grade	Jacket Type	VSWR	Return Loss (dB)	Bending Tool Kit	Flaring Tool Kit	Saw Guide	Hoisting Grip
2.9 - 3.4	EW28	Standard	Black PE jacket	1.2 / 1.15*	20.8 / 23.1*	EWBTK-4	N/A	N/A	26985A
2.7 - 2.9	EW28-27	Standard	Black PE jacket	1.2	20.8				

## Connectors



Output Flange	WG Connector
CPR284G	128AE

## Auxiliary Products



Pressure Window	Termination Load	Blanking Plate
N/A	N/A	N/A

## Accessories

Grounding Kits	Product #
Grounding Kit 24"	N/A
Grounding Kit 60"	223700-724
Universal Grounding Kit	N/A
Tower Attachment Kits	Product #
Standard Hanger Kit	31766A-11
Snap-in Hanger Kit	N/A
Angle Adapter	31768A / 31768A-M
Entry Equipment	Product #
Single Entry Panel 4"	N/A
Boot Assembly 4"	N/A
Boot Assembly 5"	N/A





## EW37 Series



Freq. (GHz)	Waveguide	Grade	Jacket Type	VSWR	Return Loss (dB)	Bending Tool Kit	Flaring Tool Kit	Saw Guide	Hoisting Grip
3.6 - 4.2	EW37	Standard	Black PE jacket	1.15	23.1	EWBTK-3	205869	245310	31535
3.4 - 3.9	EWP37-34	Premium	Black PE jacket	1.15	23.1				
3.54 - 4.2	EWP37-35	Premium	Unjacketed	1.15	23.1				
3.6 - 4.2	EWP37-36	Premium	Unjacketed	1.15	23.1				
3.7 - 4.2	EWP37S	Super Premium	Unjacketed	1.15	23.1				

## Connectors



Output Flange	WG Connector
CPR229G	137SE
PDR40	137SEM
Splice	137DZ

## Auxiliary Products



Pressure Window	Termination Load	Blanking Plate
55001-229	N/A	110163-40
223306-40	N/A	110163-40
223306-40	N/A	N/A

## Accessories

Grounding Kits	Product #
Grounding Kit 24"	N/A
Grounding Kit 60"	223700-724
Universal Grounding Kit	N/A
Tower Attachment Kits	Product #
Standard Hanger Kit	42396A-4
Snap-in Hanger Kit	N/A
Angle Adapter	31768A / 31768A-M
Entry Equipment	Product #
Single Entry Panel 4"	245314-37
Boot Assembly 4"	WGB4-37
Boot Assembly 5"	WGB5-37



## EW43 Series



Freq. (GHz)	Waveguide	Grade	Jacket Type	VSWR	Return Loss (dB)	Bending Tool Kit	Flaring Tool Kit	Saw Guide	Hoisting Grip
4.4 - 5.0	EW43	Standard	Black PE jacket	1.15	23.1	EWBTK-3	EWFTK-43	245310	24312A
4.4 - 5.0	EWP43	Premium	Black PE jacket	1.07	29.4				

## Connectors



Output Flange	WG Connector
CPR187G	143SE
PDR48	143SEM
UG-149/U	143SC
Splice	143DZ

## Auxiliary Products



Pressure Window	Termination Load	Blanking Plate
55001-187	N/A	110163-48
223306-48	N/A	110163-48
55000A-187	N/A	N/A
N/A	N/A	N/A

## Accessories

Grounding Kits	Product #
Grounding Kit 24"	204989-10
Grounding Kit 60"	N/A
Universal Grounding Kit	N/A
Tower Attachment Kits	Product #
Standard Hanger Kit	42396A-16
Snap-in Hanger Kit	N/A
Angle Adapter	31768A / 31768A-M
Entry Equipment	Product #
Single Entry Panel 4"	245314-43
Boot Assembly 4"	WGB4-43
Boot Assembly 5"	WGB5-43



## EW52 Series



Freq. (GHz)	Waveguide	Grade	Jacket Type	VSWR	Return Loss (dB)	Bending Tool Kit	Flaring Tool Kit	Saw Guide	Hoisting Grip
5.6 - 6.425	EW52	Standard	Black PE jacket	1.15	23.1	EWBTK-2	EWFTK-52	245311	24312A
5.0 - 5.85	EWP52-50	Premium	Black PE jacket	1.1	26.4				
5.6 - 6.2	EWP52-56	Premium	Black PE jacket	1.06	30.7				
5.6 - 6.425	EWP52-56W	Premium	Black PE jacket	1.06	30.7				
5.725 - 6.425	EWP52-58	Premium	Black PE jacket	1.06	30.7				
5.925 - 6.425	EWP52-59	Premium	Black PE jacket	1.06	30.7				
5.925 - 6.425	EWP52S	Super Premium	Black PE jacket	1.05	32.3				
5.925 - 6.425	35409-20	Premium	Fire retardant	1.06	30.7				
5.925 - 6.425	222040-3	Super Premium	Unjacketed	1.05	32.3				

## Connectors



Output Flange	WG Connector
CPR159G	152SE
CPR137G	252SE
PDR70	252SEM
Splice	152DZ

## Auxiliary Products



Pressure Window	Termination Load	Blanking Plate
55001-159	N/A	110163-58
55001-137	112614-70	110163-70
223306-70	112614-70	110163-70
N/A	N/A	N/A

## Accessories

Grounding Kits	Product #
Grounding Kit 24"	241088-4
Grounding Kit 60"	220498
Universal Grounding Kit	N/A
Tower Attachment Kits	Product #
Standard Hanger Kit	42396A-8
Snap-in Hanger Kit	EWSH-52
Angle Adapter	31768A / 31768A-M
Entry Equipment	Product #
Single Entry Panel 4"	245314-52
Boot Assembly 4"	WGB4-52
Boot Assembly 5"	WGB5-52





## EW63 Series



Freq. (GHz)	Waveguide	Grade	Jacket Type	VSWR	Return Loss (dB)	Bending Tool Kit	Flaring Tool Kit	Saw Guide	Hoisting Grip
5.925 – 7.125	EW63	Standard	Black PE jacket	1.15	23.1	EWBTK-2	EWF TK-63	245311	24312A
5.725 – 7.125	EWP63-57W	Premium	Black PE jacket	1.06	30.7				
5.925 – 6.575	EWP63-59	Premium	Black PE jacket	1.06	30.7				
5.8 – 7.125	EWP63-59W	Premium	Black PE jacket	1.06	30.7				
6.425 – 7.125	EWP63-65	Premium	Black PE jacket	1.06	30.7				
6.525 – 6.875	EWP63-65N	Premium	Black PE jacket	1.05	32.3				
6.425 – 7.125	EWP63S	Super Premium	Black PE jacket	1.05	32.3				
5.925 – 7.125	35409-19	Standard	Fire retardant	1.15	23.1				
6.425 – 7.125	35409-18	Super Premium	Fire retardant	1.05	32.3				
6.425 – 7.125	222040-1	Super Premium	Unjacketed	1.05	32.3				

## Connectors



Output Flange	WG Connector
CPR137G	163SE
PDR70	163SEM
UG-344/U	163SC
Splice	163DZ

## Auxiliary Products



Pressure Window	Termination Load	Blanking Plate
55001-137	N/A	N/A
223306-70	112614-70	110163-70
55000A-137	112614-70	110163-70
N/A	N/A	N/A

## Accessories

Grounding Kits	Product #
Grounding Kit 24"	241088-4
Grounding Kit 60"	220498
Universal Grounding Kit	UG12158-15B4-T
Tower Attachment Kits	Product #
Standard Hanger Kit	42396A-7
Snap-in Hanger Kit	EWSH-63
Angle Adapter	31768A / 31768A-M
Entry Equipment	Product #
Single Entry Panel 4"	245314-63
Boot Assembly 4"	WGB4-63
Boot Assembly 5"	WGB4-63



## EW64 Series



Freq. (GHz)	Waveguide	Grade	Jacket Type	VSWR	Return Loss (dB)	Bending Tool Kit	Flaring Tool Kit	Saw Guide	Hoisting Grip
6.425 - 7.75	EW64	Standard	Black PE jacket	1.15	23.1	EWBTK-2	202358	245311	29961
6.425 - 7.125	EWP64-65	Premium	Black PE jacket	1.06	30.7				
7.125 - 7.75	EWP64-71	Premium	Black PE jacket	1.06	30.7				
6.425 - 7.125	222040-9	Premium	Unjacketed	1.06	30.7				

## Connectors



Output Flange	WG Connector
CPR137G	164SE
PDR70	164SEM
CPR112G	264SE
PDR84	264SEM
Splice	164DZ

## Auxiliary Products



Pressure Window	Termination Load	Blanking Plate
55001-137	112614-70	110163-70
223306-70	112614-70	110163-70
55001-112	112614-84	110163-84
223306-84	112614-84	110163-84
N/A	N/A	N/A

## Accessories

Grounding Kits	Product #
Grounding Kit 24"	241088-3
Grounding Kit 60"	241088-60
Universal Grounding Kit	UG12158-15B4-T
Tower Attachment Kits	Product #
Standard Hanger Kit	42396A-1
Snap-in Hanger Kit	EWSH-64
Angle Adapter	31768A / 31768A-M
Entry Equipment	Product #
Single Entry Panel 4"	245314-64
Boot Assembly 4"	WGB4-64
Boot Assembly 5"	WGB4-64



## EW77 Series



Freq. (GHz)	Waveguide	Grade	Jacket Type	VSWR	Return Loss (dB)	Bending Tool Kit	Flaring Tool Kit	Saw Guide	Hoisting Grip
7.125 - 8.5	EW77	Standard	Black PE jacket	1.15	23.1	EWBTK-2	202421	245311	19256B
7.125 - 7.75	EWP77-71	Premium	Black PE jacket	1.06	30.7				
7.125 - 8.5	EWP77-71W	Premium	Black PE jacket	1.06	30.7				
7.125 - 8.5	EWP77-77	Premium	Black PE jacket	1.06	30.7				
7.125 - 8.5	35409-22	Standard	Fire retardant	1.15	23.1				
7.125 - 8.5	35409-24	Premium	Fire retardant	1.06	30.7				
7.125 - 8.5	222040-6	Premium	Unjacketed	1.06	30.7				

## Connectors



## Auxiliary Products



Output Flange	WG Connector	Pressure Window	Termination Load	Blanking Plate
PDR70	277SEM	223306-70	112614-70	110163-70
CPR112G	177SE	55001-112	112614-84	110163-84
PDR84	177SEM	223306-84	112614-84	110163-84
PBR84	177SCM	55001-187	112615-84	110162-84
UG-51/U	177SC	55000A-187	112615-84	N/A
Splice	177DZ	N/A	N/A	N/A

## Accessories

Grounding Kits	Product #
Grounding Kit 24"	241088-3
Grounding Kit 60"	241088-60
Universal Grounding Kit	UG12158-15B4-T
Tower Attachment Kits	Product #
Standard Hanger Kit	42396A-11
Snap-in Hanger Kit	EWSH-77
Angle Adapter	31768A / 31768A-M
Entry Equipment	Product #
Single Entry Panel 4"	245314-77
Boot Assembly 4"	WGB4-77
Boot Assembly 5"	WGB5-77



## EW85 Series



Freq. (GHz)	Waveguide	Grade	Jacket Type	VSWR	Return Loss (dB)	Bending Tool Kit	Flaring Tool Kit	Saw Guide	Hoisting Grip
8.5 - 9.8	EW85	Standard	Black PE jacket	1.17	23.1	EWBTK-2	N/A	N/A	29958
8.5 - 9.8	35409-17	Standard	Fire retardant	1.17	22.1				

## Connectors



Output Flange	WG Connector
UG-39/U	185BC
Splice	185AZ

## Auxiliary Products



Pressure Window	Termination Load	Blanking Plate
55000A-90	112615-100	N/A
N/A	N/A	N/A

## Accessories

Grounding Kits	Product #
Grounding Kit 24"	241088-2
Grounding Kit 60"	220497
Universal Grounding Kit	UG12158-15B4-T
Tower Attachment Kits	Product #
Standard Hanger Kit	42396A-5
Snap-in Hanger Kit	EWSH-85
Angle Adapter	31768A / 31768A-M
Entry Equipment	Product #
Single Entry Panel 4"	245314-85
Boot Assembly 4"	WGB4-85
Boot Assembly 5"	N/A



## EW90 Series



Freq. (GHz)	Waveguide	Grade	Jacket Type	VSWR	Return Loss (dB)	Bending Tool Kit	Flaring Tool Kit	Saw Guide	Hoisting Grip
10.2 - 11.7	EW90	Standard	Black PE jacket	1.15	23.1	EWBTK-1	204919	245312	29958
10.0 - 10.7	EWP90-100	Premium	Black PE jacket	1.08	28.3				
10.2 - 10.7	EWP90-105	Premium	Black PE jacket	1.06	30.7				
10.5 - 11.7	EWP90-105W	Premium	Black PE jacket	1.06	30.7				
10.7 - 11.7	EWP90-107	Premium	Black PE jacket	1.06	30.7				
10.7 - 11.7	EWP90S	Super Premium	Black PE jacket	1.05	32.3				
10.7 - 11.7	35409-16	Premium	Fire retardant	1.06	30.7				
10.7 - 11.7	222040-2	Super Premium	Unjacketed	1.05	32.3				

## Connectors



Output Flange	WG Connector
CPR90G	190SE
PDR100	190SEM
PBR100	190SCM
WR75	290SC
Splice	190DZ

## Auxiliary Products



Pressure Window	Termination Load	Blanking Plate
55001-90	112614-100	110163-100
223306-100	112614-100	110163-100
N/A	112615-100	110162-100
55000A-75	112615-120	N/A
N/A	N/A	N/A

## Accessories

Grounding Kits	Product #
Grounding Kit 24"	241088-2
Grounding Kit 60"	220497
Universal Grounding Kit	UG12158-15B4-T
Tower Attachment Kits	Product #
Standard Hanger Kit	42396A-5
Snap-in Hanger Kit	EWSH-90
Angle Adapter	31768A / 31768A-M
Entry Equipment	Product #
Single Entry Panel 4"	245314-90
Boot Assembly 4"	WGB4-90
Boot Assembly 5"	WGB5-90



## EW127A Series



Freq. (GHz)	Waveguide	Grade	Jacket Type	VSWR	Return Loss (dB)	Bending Tool Kit	Flaring Tool Kit	Saw Guide	Hoisting Grip
11.7 - 13.25	EW127A	Standard	Black PE jacket	1.15	23.1	EWBTK-1	204960	245312	29958
11.7 - 13.25	EWP127A	Premium	Black PE jacket	1.08	28.3				
11.7 - 13.25	35409-15	Standard	Fire retardant	1.15	23.1				
11.7 - 13.25	222040-4	Premium	Unjacketed	1.08	28.3				

## Connectors



Output Flange	WG Connector
PDR120	1127SEM
PBR120	1127SCM
WR75	1127SC
Splice	1127DZ

## Auxiliary Products



Pressure Window	Termination Load	Blanking Plate
223306-120	N/A	110163-120
110088	112615-120	110162-120
55000A-75	112615-120	N/A
N/A	N/A	N/A

## Accessories

Grounding Kits	Product #
Grounding Kit 24"	241088-2
Grounding Kit 60"	220497
Universal Grounding Kit	UG12158-15B4-T
Tower Attachment Kits	Product #
Standard Hanger Kit	42396A-9
Snap-in Hanger Kit	EWSH-127A
Angle Adapter	31768A / 31768A-M
Entry Equipment	Product #
Single Entry Panel 4"	245314-127A
Boot Assembly 4"	WGB4-127A
Boot Assembly 5"	WGB5-127A





## EW132 Series



Freq. (GHz)	Waveguide	Grade	Jacket Type	VSWR	Return Loss (dB)	Bending Tool Kit	Flaring Tool Kit	Saw Guide	Hoisting Grip
13.75 - 14.8	EW132-137	Standard	Black PE jacket	1.15	23.1	EWBTK-1	203809	245312	29958
13.75 - 14.8	EWP132-137	Premium	Black PE jacket	1.08	28.3				
14.0 - 14.5	EW132-140	Standard	Black PE jacket	1.15	23.1				
14.0 - 14.5	EWP132-140	Premium	Black PE jacket	1.08	28.3				
14.4 - 15.35	EW132-144	Standard	Black PE jacket	1.15	23.1				
14.4 - 15.35	EWP132-144	Premium	Black PE jacket	1.08	28.3				
14.4 - 15.35	35409-14	Standard	Fire retardant	1.15	23.1				
14.4 - 15.35	222040-7	Premium	Unjacketed	1.05	28.3				

## Connectors



## Auxiliary Products



Output Flange	WG Connector	Pressure Window	Termination Load	Blanking Plate
PDR120	2132SEM	223306-120	N/A	110163-120
PBR120	2132SCM	110088	112615-120	110162-120
WR75	2132SC	55000A-75	112615-120	N/A
PDR140	1132SEM	223306-140	N/A	110163-140
PBR140	1132SCM	110089	112615-140	110162-140
UG-541/U	1132SC	55000-62	112615-140	N/A
Splice	1132DZ	N/A	N/A	N/A

## Accessories

Grounding Kits	Product #
Grounding Kit 24"	241088-2
Grounding Kit 60"	220497
Universal Grounding Kit	UG12158-15B4-T
Tower Attachment Kits	Product #
Standard Hanger Kit	42396A-9
Snap-in Hanger Kit	EWSH-132
Angle Adapter	31768A / 31768A-M
Entry Equipment	Product #
Single Entry Panel 4"	245314-132
Boot Assembly 4"	WGB4-132
Boot Assembly 5"	WGB5-132



## EW180 Series



Freq. (GHz)	Waveguide	Grade	Jacket Type	VSWR	Return Loss (dB)	Bending Tool Kit	Flaring Tool Kit	Saw Guide	Hoisting Grip
17.3 - 19.7	EW180	Standard	Black PE jacket	1.15	23.1	EWBTK-1	201439	N/A	43094
17.3 - 18.4	EW180-173	Standard	Black PE jacket	1.15	23.1				
17.7 - 19.7	EWP180-180	Premium	Black PE jacket	1.08	28.3				
17.7 - 19.7	35409-21	Premium	Fire retardant	1.09	27.3				
17.7 - 19.7	222040-5	Premium	Unjacketed	1.08	28.3				

## Connectors



Output Flange	WG Connector
PDR180	2180SEM
PBR220	1180SCM
UG-595/U	1180SC
Splice	1180DZ

## Auxiliary Products



Pressure Window	Termination Load	Blanking Plate
223306-180	N/A	110163-180
112587	112615-220	110162-220
55000A-42	112615-120	N/A
N/A	N/A	N/A

## Accessories

Grounding Kits	Product #
Grounding Kit 24"	241088-1
Grounding Kit 60"	241545
Universal Grounding Kit	UG12158-15B4-T
Tower Attachment Kits	Product #
Standard Hanger Kit	43211A
Snap-in Hanger Kit	EWSH-180
Angle Adapter	31768A / 31768A-M
Entry Equipment	Product #
Single Entry Panel 4"	245314-180
Boot Assembly 4"	WGB4-180
Boot Assembly 5"	WGB5-180



## EW220 Series



Freq. (GHz)	Waveguide	Grade	Jacket Type	VSWR	Return Loss (dB)	Bending Tool Kit	Flaring Tool Kit	Saw Guide	Hoisting Grip
21.2 - 23.6	EW220	Standard	Black PE jacket	1.15	23.1	EWBTK-1	205127	N/A	43094
21.2 - 23.6	222040-8	Standard	Unjacketed	1.15	23.1				

## Connectors



Output Flange	WG Connector
PBR220	1220ASCM
UG-595/U	1220ASC

## Auxiliary Products



Pressure Window	Termination Load	Blanking Plate
112587	112615-220	110162-220
55000A-42	112615-220	N/A

## Accessories

Grounding Kits	Product #
Grounding Kit 24"	241088-1
Grounding Kit 60"	241545
Universal Grounding Kit	N/A
Tower Attachment Kits	Product #
Standard Hanger Kit	43211A
Snap-in Hanger Kit	EWSH-220
Angle Adapter	31768A / 31768A-M
Entry Equipment	Product #
Single Entry Panel 4"	245314-220
Boot Assembly 4"	WGB4-220
Boot Assembly 5"	WGB5-220



## EW240 Series



Freq. (GHz)	Waveguide	Grade	Jacket Type	VSWR	Return Loss (dB)	Bending Tool Kit	Flaring Tool Kit	Saw Guide	Hoisting Grip
24.0 - 26.5	EW240	Standard	Black PE jacket	1.15	23.1	EWBTK-1	N/A	N/A	24312A

## Connectors



Output Flange	WG Connector
PBR220	1240SCM
Splice	1240DZ

## Auxiliary Products



Pressure Window	Termination Load	Blanking Plate
112587	112615-220	110162-220
N/A	N/A	N/A

## Accessories

Grounding Kits	Product #
Grounding Kit 24"	223158-2   242948
Grounding Kit 60"	223158-4
Universal Grounding Kit	N/A
Tower Attachment Kits	Product #
Standard Hanger Kit	43211A
Snap-in Hanger Kit	EWSH-240
Angle Adapter	31768A / 31768A-M
Entry Equipment	Product #
Single Entry Panel 4"	245314-240
Boot Assembly 4"	WGB4-240
Boot Assembly 5"	WGB5-240



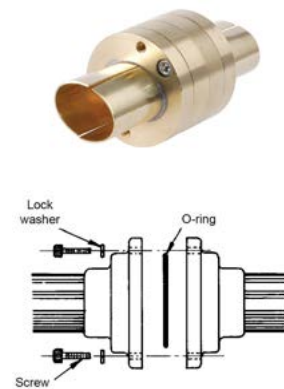
## Connector Kits

WG Size	Waveguide Connector	Connector Reattachment Kit	Connector Hardware Kit
EW17	117ET	33544-10	N/A
EW20	120E	33544-11	45595-340
EW28	128AE	N/A	45595-284
EW37	137SE; 137SEM	33544-24	45594-137
EW43	143SE; 143SEM; 143SC	33544-45	45594-143
EW52	152SE	33544-38	245702
EW52	252SE; 252SEM	33544-38	45594-152B
EW63	163SE; 163SEM; 163SC	33544-33	45594-163B
EW64	164SE; 164SEM	33544-35	45594-164A
EW64	264SE; 264SEM	33544-35	45594-164A
EW77	177SE; 177SEM; 177SC; 177SCM	33544-34	45594-177A
EW77	277SEM	33544-34	45594-177A
EW85	185BC	33544-17	45595-185
EW90	190SE; 190SEM; 190SCM	33544-37	45594-190A
EW90	290SC	33544-37	45594-190A
EW127A	1127SEM; 1127SC; 1127SCM	33544-41	45595-1127B
EW132	1132SEM; 1132SC; 1132SCM	33544-39	45594-1132B
EW132	2132SEM; 2132SC; 2132SCM	33544-39	45594-1132A
EW180	1180SC; 1180SCM	33544-42	45594-1180
EW180	2180SEM	33544-42	107702
EW220	1220ASC; 1220ASCM	33544-44A	45594-1220A
EW240	1240SCM	33544-47	45594-1240



## Splice Hardware

WG Size	Splice	Hardware Kit
EW17	117Z	N/A
EW20	120Z	N/A
EW37	137DZ	45593-137
EW43	143DZ	45593-143
EW52	152DZ	N/A
EW63	163DZ	45593-163
EW64	164DZ	45594-164
EW77	177DZ	241471
EW85	185AZ	45592-185
EW90	190DZ	241473
EW127A	1127DZ	45592-1127
EW132	1132DZ	45593-1132
EW180	1180DZ	45592-1180
EW240	1240DZ	45592-1240B



## Grounding Kits

WG Size	Grounding Kit 24"	Grounding Kit 60"
EW17	204989-6	–
EW20	204989-6	–
EW28	–	223700-724
EW37	–	223700-724
EW43	204989-10	–
EW52	241088-4	220498
EW63	241088-4	220498
EW64	241088-3	241088-60
EW77	241088-3	241088-60
EW85	241088-2	220497
EW90	241088-2	220497
EW127A	241088-2	220497
EW132	241088-2	220497
EW180	241088-1	241545
EW220	241088-1	241545
EW240	223158-2   242948	223158-4
EW380	223158-2   242948	223158-4



## Universal Grounding Kit 60"

### UG1215B4-T

Compatible with EW63 – EW180

Individual specifications can be found in the E-Catalog





## Waveguide Hangers



WG Size	Standard Hanger Kit (Pack of 10)	Snap-in Hanger Kit (Pack of 10)	Standard Spacing 124mph (200km/h) Feet (m)	High Wind Spacing 149mph (240km/h) Feet (m)
EW17	31766A-9	–	6.0 (1.83)	4.5 (1.37)
EW20	31766A-10	–	5.5 (1.68)	4.0 (1.22)
EW28	31766A-11	–	5.0 (1.52)	3.5 (1.07)
EW37	42396A-4	–	4.5 (1.37)	3.0 (0.91)
EW43	42396A-16	–	4.0 (1.22)	3.0 (0.91)
EW52	42396A-8	EWSH-52	3.5 (1.07)	2.5 (0.76)
EW63	42396A-7	EWSH-63	3.0 (0.91)	2.0 (0.61)
EW64	42396A-1	EWSH-64	3.0 (0.91)	2.0 (0.61)
EW77	42396A-11	EWSH-77	3.0 (0.91)	2.0 (0.61)
EW85	42396A-5	EWSH-85	3.0 (0.91)	2.0 (0.61)
EW90	42396A-5	EWSH-90	3.0 (0.91)	2.0 (0.61)
EW127A	42396A-9	EWSH-127A	3.0 (0.91)	2.0 (0.61)
EW132	42396A-9	EWSH-132	3.0 (0.91)	2.0 (0.61)
EW180	43211A	EWSH-180	3.0 (0.91)	2.0 (0.61)
EW220	43211A	EWSH-220	3.0 (0.91)	2.0 (0.61)
EW240	43211A	EWSH-240	3.0 (0.91)	2.0 (0.61)

Angle Adapter Kit (Pack of 10)	
Imperial	31768A
Metric	31768A-M



## Waveguide Entry Equipment

### Entrance Panels

WG Size	4" Single Entrance Panel(Boot included)
EW17	-
EW20	-
EW28	-
EW37	245314-37
EW43	245314-43
EW52	245314-52
EW63	245314-63
EW64	245314-64
EW77	245314-77
EW85	245314-85
EW90	245314-90
EW127A	245314-127A
EW132	245314-132
EW180	245314-180
EW220	245314-220
EW240	245314-240



### Boot Assemblies

WG Size	Boot Only (4")	Boot Only (5") (Replacement Only)
EW17	-	-
EW20	-	-
EW28	-	-
EW37	WGB4-37	WGB5-37
EW43	WGB4-43	WGB5-43
EW52	WGB4-52	WGB5-52
EW63	WGB4-63	WGB5-63
EW64	WGB4-64	WGB5-64
EW77	WGB4-77	WGB5-77
EW85	WGB4-85	WGB5-85
EW90	WGB4-90	WGB5-90
EW127A	WGB4-127A	WGB5-127A
EW132	WGB4-132	WGB5-132
EW180	WGB4-180	WGB5-180
EW220	WGB4-220	WGB5-220
EW240	WGB4-240	WGB5-240



## Elliptical Waveguide - CommScope vs. Competitors

Freq. (GHz)	HELIAX®	RFS FLEXWELL®	Eupen
1.7 – 2.3	EW17	–	–
2.1 – 2.7	EW20	–	–
2.7 – 3.4	EW28	–	–
3.4 – 4.2	EW37	E38	–
4.4 – 5.0	EW43	ES46	–
5.0 – 6.425	EW52	E60	–
5.725 – 7.125	EW63	E65	EU 63
6.425 – 7.75	EW64	E70	–
7.125 – 8.5	EW77	E78	EU 77
8.5 – 9.8	EW85	E100	–
10.0 – 11.7	EW90	E105	EU 90
11.7 – 13.25	EW127A	E130	EU 127
13.75 – 15.35	EW132	E150	–
17.3 – 19.7	EW180	E185	–
21.2 – 23.6	EW220	E220	–
24.0 – 26.5	EW240	E250	–

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