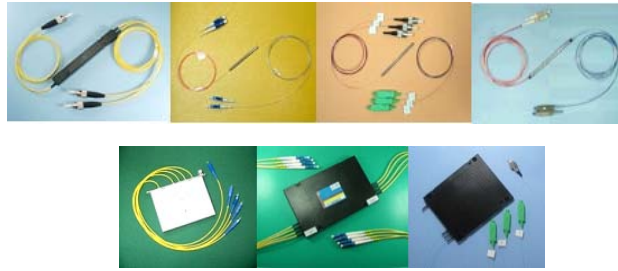


LEAD Fiber Optics PRODUCT CATALOGUE

FIBER OPTIC COUPLER

Fiber Optic Coupler



Fiber optic couplers are optical devices that connect three or more fiber ends, dividing one input between two or more outputs, or combining two or more inputs into one output.

Fiber optic coupler is different from WDM. **WDM** can divide the different wavelength fiber light into different channels. Fiber optic couplers divide the light power and send it to different channel.

Single window fiber optic coupler is with one working wavelength. Dual window fiber optic coupler is with two working wavelength. For Single mode fiber, the term means that the fiber is optimized for 1310 nm and 1550 nm; For Multimode fiber, the term means that the fiber is optimized for 850 nm and 1310 nm.

Choices for fiber optic coupler type include Single window fiber optic coupler, Dual window fiber optic coupler, Wide band fiber optic coupler.

Single window fiber Optic couplers (1310 +/-10nm or 1510 +/-10nm) are designed for a single wavelength with a narrow wavelength window.

1. Standard Singlemode coupler
2. Singlemode Tree coupler
3. Unitary 1(3) x 3 coupler

Dual window fiber Optic couplers (1310 +/-40nm and 1510 +/-40nm) are designed for two wavelengths with a wide wavelength window for each.

1. Dual window wideband coupler
2. Dual window Tree coupler
3. Dual window Star coupler
4. Unitary 1X3 and 1X4 Dual Window Wideband

Wideband fiber optic couplers (1310 +/-40nm or 1510 +/-40nm; 850nm +/-40nm or 1310nm +/-40nm) are designed for a single wavelength with a wider wavelength window.

1. Singlemode Wideband coupler
2. Unitary 1x3 wideband coupler (1310 +/-30nm or 1510 +/-30nm)
3. Wideband Tree coupler
4. Standard Multimode coupler

LFO Fiber Optic Couplers and **Splitters** are available in a variety of styles, sizes, port configurations, couple (split) values, and wavelength specifications allowing a high degree of flexibility in tailoring the product to suit your precise requirements and application.

LFO Fiber Optic Coupler Series



Standard Singlemode Coupler

Standard Singlemode Couplers (Single window Standard Singlemode Couplers) are bi-directional multi-port devices which combine or separate optical signals over 1310nm or 1550nm wavelength windows. They are manufactured using the fused bionics taper (FBT) process ensure consistency in quality, reliability and high performance in a wide range of applications.



Standard Multimode Coupler

Standard Multimode Couplers are fabricated from graded index fibers with core diameters of 50um or 62.5um. Standard multimode couplers are commonly used in short distance communications with LED sources operating at 1310nm or 850nm. They can be widely used in Local Access Networks (LAN), Passive Optical Networks (PON), Optical Communications, Testing Instrument and Optical Fiber Sensor.



Singlemode Wideband Coupler

Singlemode Wideband Couplers (Single window Singlemode Wideband Couplers) have 80nm bandwidth, compared to 20nm of standard singlemode couplers. They are working at center wavelength other than 1310nm or 1550nm can also be provided. They are manufactured using the fused bionics taper (FBT) process ensure consistency in quality, reliability and high performance in a wide range of applications.



Dual Window Wideband coupler

Dual Window Wideband couplers (Dual Window Wideband Single mode couplers) are bi-directional passive devices which split or combine different optical signals over 1310nm and 1550nm wavelength windows. They are manufactured using the fused bionics taper (FBT) process ensure consistency in quality, reliability and high performance in a wide range of applications.



Singlemode Tree coupler

Singlemode Tree Fiber Optic Couplers (Single Window Singlemode Tree couplers) are bi-directional high-port count units for splitting or combining optical signals over 1310nm or 1550nm wavelength windows. They are fused bionics tapered couplers cascaded in series to achieve the desired port configuration. These couplers are used to branch 1(2) input fibers into N (3, 4, 8,...16 ..) out put fibers with minimum loss.



Wideband Tree coupler

Wideband Tree Fiber Optic couplers (Single Window wideband Tree couplers) have 80nm bandwidth, compared to 20nm of standard singlemode couplers They are working at 1310nm or 1550nm wavelength windows. They are fused bionics tapered couplers cascaded in series to achieve the desired port configuration. These couplers are used to branch 1(2) input fibers into N (3, 4, 8,...16 ..) out put fibers with minimum loss.



Dual Window Tree Coupler

Dual Window Tree Couplers (Dual Window Singlemode Tree couplers) are bi-directional high-port count units for splitting or combining different optical signals over 1310nm and 1550nm wavelength windows. These Tree couplers are fused bionics tapered couplers cascaded in series to achieve the desired port configuration. They are used to branch 1(2) input fibers into N (3, 4, 8,...16 ..) out put fibers with minimum loss.



Dual Window Star Coupler

Dual Window Star Couplers (Dual Window Singlemode Star Couplers) are bi-directional high-port count units for splitting or combining different optical signals over 1310nm and 1550nm wavelength windows. These Star Couplers are fused t bionics tapered couplers cascaded in series to achieve the desired port configuration. They are used to branch N (4, 8...16..) input fibers into N (4, 8...16..) out put fibers with minimum loss.



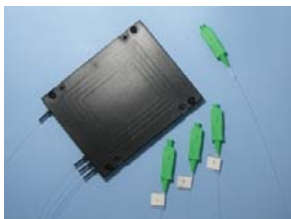
Unitary 1X3 and 3X3 Coupler

Unitary 1X3 and 3X3 Couplers are multi-port components based on single fusion of multi fibers using advanced Fused Bionics Taper Technology. They have wide operation wavelength window, including 1310nm or 1550nm. These Couplers have compact package size, low insertion loss, wide bandwidth and high reliability in performance.



Unitary 1X3 Wideband Coupler

Unitary 1X3 Wideband Couplers are multi-port components based on single fusion of multi fibers using advanced Fused Bionics Taper Technology. They have 60nm bandwidth, compared to 20nm of Unitary 1X3Couplers. They have wide operation wavelength window, including 1310nm or 1550nm. These Couplers have compact package size, low insertion loss, wide bandwidth and high reliability in performance.



Unitary 1X3 and 1X4 Dual Window Wideband

Unitary 1X3 and 1X4 Dual Window Wideband are multi-port components based on single fusion of multi fibers using advanced Fused Bionics Taper Technology. They have wide operation wavelength window, including 1310nm and 1550nm. These Couplers have compact package size, low insertion loss, wide bandwidth and high reliability in performance.

Standard SingleMode Coupler

Features

- Low insertion Loss
- Customized Package available
- Environmentally stable.

Applications

- Telecommunication networks
- LAN
- FTTH deployments
- Video transmission
- Fiber optic sensing
- Testing instruments
- Point to point system
- WAN



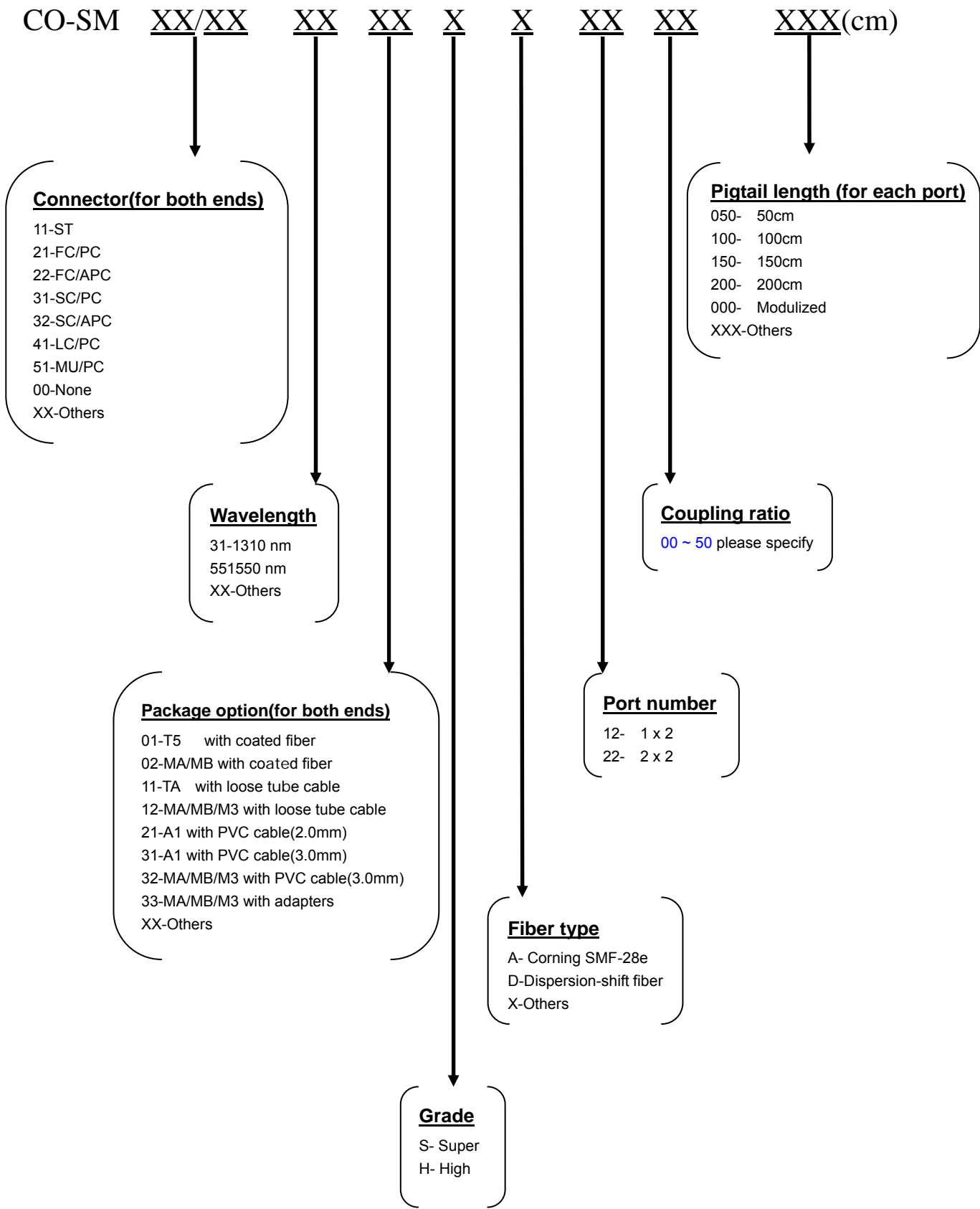
Specifications

ITEM		VALUE	
Operation Wavelength ,nm		1310nm±10 or 1550nm±10	
Grade		Supper(s)	High(H)
Typical Excess Loss ,dB		0.06	0.15
Uniformity, dB(50:50)		0.5	0.9
Thermal Stability , dB (peak-peak)		≤0.2	≤0.3
Polarization Stability ,dB		≤0.1	≤0.15
Port Configuration		1×2 or 2×2	
Coupling Ratio		1 : 99 to 50 : 50, (50 : 50 standard)	
Insertion Loss ,dB		Refer to Coupling ratio vs. insertion Loss chart	
Directivity ,dB		≥50(1×2), ≥60(2×2)	
Reflectance ,dB		≥55	
Operation Temperature,°C		-40°C ~ 85°C(*)	
Storage temperature, °C		-55°C ~ 85°C	
Package Options (for different pigtail)	1.coated fiber (250 μ m)	T5,MA,MB,M3	
	2.Loose tube (900 μ m)	TA,MA,MB,M3	
	3.PVC cable(3.0mm)	A1,MA,MB,M3	

Note: (*) -20°C ~ +70°C for PVC cable

Coupling Ratio (%)	Insertion Loss(dB)	
	Super Grade(S)	High Grade(H)
50/50	3.4	3.6
40/60	4.4/2.5	4.7/2.8
30/70	5.7/1.8	6.0/2.0
20/80	7.5/1.2	8.0/1.4
10/90	10.8/0.7	11.5/0.9
5/95	14.6/0.4	15.5/0.6
1/99	21.6/0.2	22.0/0.3

Standard Singlemode Coupler Ordering information



Standard Multimode Coupler

Features

- Low insertion Loss
- Customized Package available
- Environmentally stable.

Applications

- Telecommunication networks
- LAN
- Video transmission
- Fiber optic sensing
- Testing instruments



Specifications

ITEM	VALUE	
Operation Wavelength , nm	850nm or 1310nm	
Grade	Super(S)	High(H)
Excess Loss ,dB	0.7	1.0
Uniformity, dB (50 : 50,at specified wavelength)	0.7	1.0
Thermal Stability, dB (peak-peak)	≤0.20	≤0.25
Coupling Ratio	1 : 99 to 50 : 50 , (50 : 50 standard)	
Insertion Loss, dB	Refer to the coupling ratio vs. insertion loss chart	
Directivity, dB	≥ 35	
Reflectance, dB	≥ 35	
Operation Temperature, °C	-40°C ~85°C (*)	
Storage temperature , °C	-55°C ~85°C	
Package Options (for different pigtail)		
1.coated fiber (250µm)	T5,MA,MB,M3	
2.Loose tube (900µm)	TA,MA,MB,M3	
3.PVC cable(3.0mm)	A1,MA,MB,M3	

Note: (*) -20°C ~ +70°C for PVC cable.

Coupling Ratio (%)	Insertion Loss(dB)	
	Super Grade(S)	High Grade(H)
50/50	3.9	4.3
40/60	4.9/3.0	5.4/3.5
30/70	6.2/2.3	6.7/2.7
20/80	8.0/1.8	8.7/2.1
10/90	11.3/1.25	12.2/1.6
5/95	14.9/0.9	16.2/1.3
1/99	22.1/0.7	22.7/1.0

Standard Multimode Coupler Ordering information

CO-MM XX/XX XX XX X X XX XX XXX(cm)

Connector (for both ends)
 11-ST
 21-FC/PC
 31-SC/PC
 41-LC/PC
 51-MU/PC
 00-None
 XX-Others

Pigtail length (for each port)
 050- 50cm
 100- 100cm
 150- 150cm
 200- 200cm
 000- Modulized
 XXX-Others

Wavelength
 31-1310 nm
 30-1300 nm
 85-850 nm

Coupling ratio
 00 ~ 50 please specify

Package option
 01-T5 with coated fiber
 02-MA/MB/M3 with coated fiber
 11-TA with loose tube cable
 12-MA/MB/M3 with loose tube cable
 21-A1 with PVC cable(2.0mm)
 31-A1 with PVC cable(3.0mm)
 32-MA/MB/M3 with PVC cable(3.0mm)
 33-MA/MB/M3 with adapters
 XX-Others

Port number
 12- 1 x 2
 22- 2 x 2

Fiber type
 2- 50/125um
 3- 62.5/125um
 X-Others

Grade
 S- Super
 H- High

Singlemode Wideband Coupler

Features

- Low insertion Loss
- Customized Package available
- Environmentally stable.

Applications

- Telecommunication networks
- LAN
- FTTH deployments
- Video transmission
- Fiber optic sensing
- Testing instruments
- Point to point system
- WAN



Specifications

ITEM	VALUE	
Operation Wavelength ,nm	1310nm±40 or 1550nm±40	
Grade	Supper(s)	High(H)
Typical Excess Loss ,dB	0.1	0.2
Uniformity, dB(50:50)	0.6	1
Thermal Stability ,dB(peak-peak)	≤0.2	≤0.3
Polarization Stability ,dB	≤0.1	≤0.15
Port Configuration	1×2 or 2×2	
Coupling Ratio	1 : 99 to 50 : 50, (50 : 50 standard)	
Insertion Loss ,dB	Refer to Coupling ratio vs. insertion Loss chart	
Directivity ,dB	≥ 50(1×2), ≥ 60(2×2)	
Reflectance ,dB	≥ 55	
Operation Temperature, °C	-40°C ~ 85°C	
Storage temperature, °C	-55°C ~ 85°C	
Package Options (for different pigtail)	1.coated fiber (250µm)	T5,MA,MB,M3
	2.Loose tube (900µm)	TA,MA,MB,M3
	3.PVC cable(3.0mm)	A1,MA,MB,M3

Note: (*) -20°C ~ +70°C for PVC cable

Coupling Ratio (%)	Insertion Loss(dB)	
	Super Grade(S)	High Grade(H)
50/50	3.4	3.6
45/55	3.9/2.9	4.25/3.25
40/60	4.4/2.5	4.7/2.7
35/65	5.1/2.2	5.45/2.4
30/70	5.8/1.9	6.0/1.9
25/75	6.7/1.6	7.05/1.7
20/80	7.6/1.1	7.9/1.2
15/85	9/0.96	10.46/1.05
10/90	11/0.63	12.9/0.8
5/95	14.6/0.4	18.4/0.5
1/99	21.6/0.3	21.6/0.4

Singlemode Wideband Coupler Ordering information

CO-SW XX/XX XX XX X XX XX XXX(cm)

Connector(for both ends)
 11-ST
 21-FC/PC
 22-FC/APC
 31-SC/PC
 32-SC/APC
 41-LC/PC
 51-MU/PC
 00-None
 XX-Others

Pigtail length (for each port)
 050- 50cm
 100- 100cm
 150- 150cm
 200- 200cm
 000- Modulized
 XXX-Others

Wavelength
 31-1310 nm
 35-1550 nm

Coupling ratio
 00 ~ 50 please specify

Package option
 01-Corning SMF-28e
 02-MA/MB/M3 with coated fiber
 11-TA with loose tube cable
 12-MA/MB/M3 with loose tube cable
 21-A1 with PVC cable(2.0mm)
 31-A1 with PVC cable(3.0mm)
 32-MA/MB/M3 with PVC cable(3.0mm)
 33-MA/MB/M3 with adapters
 XX-Others

Port number
 12- 1 x 2
 22- 2 x 2

Grade
 S- Super
 H- High

Dual Window Wideband Coupler

Features

- Low insertion Loss
- Customized Package available
- Environmentally stable.

Applications

- Telecommunication networks
- LAN
- FTTH deployments
- Video transmission
- Fiber optic sensing
- Testing instruments



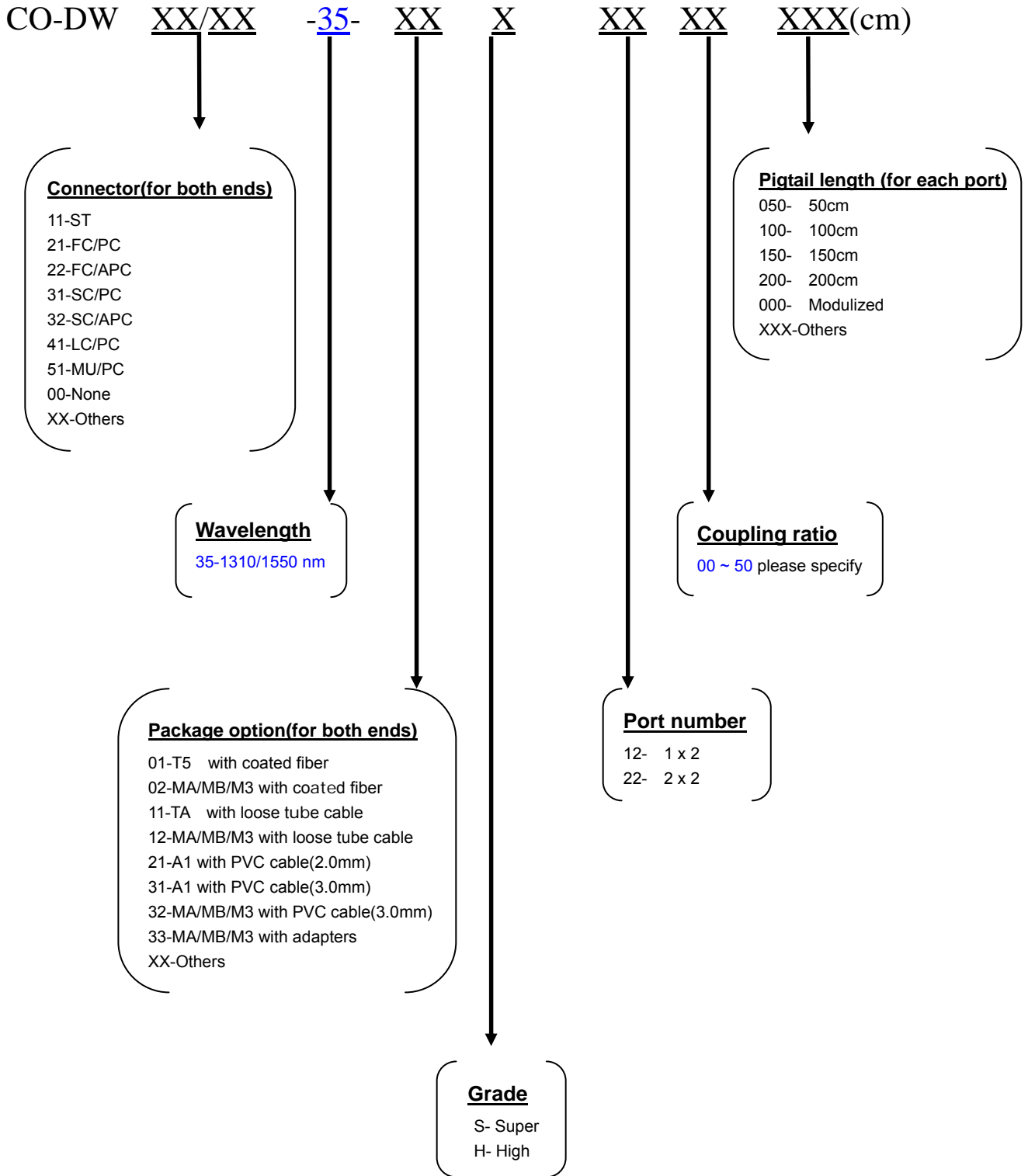
Specifications

ITEM	VALUE	
Operation Wavelength ,nm	1310nm±10 and 1550nm±10	
Grade	Supper(s)	High(H)
Typical Excess Loss ,dB	0.08	0.2
Uniformity, dB(50:50)	0.8	1.2
Thermal Stability ,dB(peak-peak)	≤0.2	≤0.3
Polarization Stability ,dB	≤0.1	≤0.15
Port Configuration	1×2 or 2×2	
Coupling Ratio	1 : 99 to 50 : 50, (50 : 50 standard)	
Insertion Loss ,dB	Refer to Coupling ratio vs. insertion Loss chart	
Directivity ,dB	≥50(1×2), ≥60(2×2)	
Reflectance ,dB	≥50	
Operation Temperature,°C	-40°C ~ 85°C	
Storage temperature, °C	-55°C ~ 85°C	
Package Options (for different pigtail)	1.coated fiber (250µm)	T5,MA,MB,M3
	2.Loose tube (900µm)	TA,MA,MB,M3
	3.PVC cable(3.0mm)	A1,MA,MB,M3

Note: (*) -20°C ~ +70°C for PVC cable

Coupling Ratio (%)	Insertion Loss(dB)	
	Super Grade(S)	High Grade(H)
50/50	3.6	3.8
45/55	4.15/3.15	4.45/3.3
40/60	4.7/2.7	5.0/2.9
35/65	5.35/2.3	5.7/2.5
30/70	6.0/1.9	6.4/2.1
25/75	6.95/1.7	7.45/1.9
20/80	7.9/1.4	8.5/1.5
15/85	9.6/1.0	10.6/1.1
10/90	11.0/0.7	12.7/0.8
5/95	14.6/0.5	18.4/0.55
1/99	21.6/0.3	21.6/0.4

Dual Window Wideband Coupler Ordering information



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Lfo

Singlemode Tree Coupler

Features

- Low insertion Loss
- Customized Package available
- Environmentally stable.

Applications

- Telecommunication networks
- LAN
- FTTH deployments
- Video transmission
- Fiber optic sensing
- Testing instruments

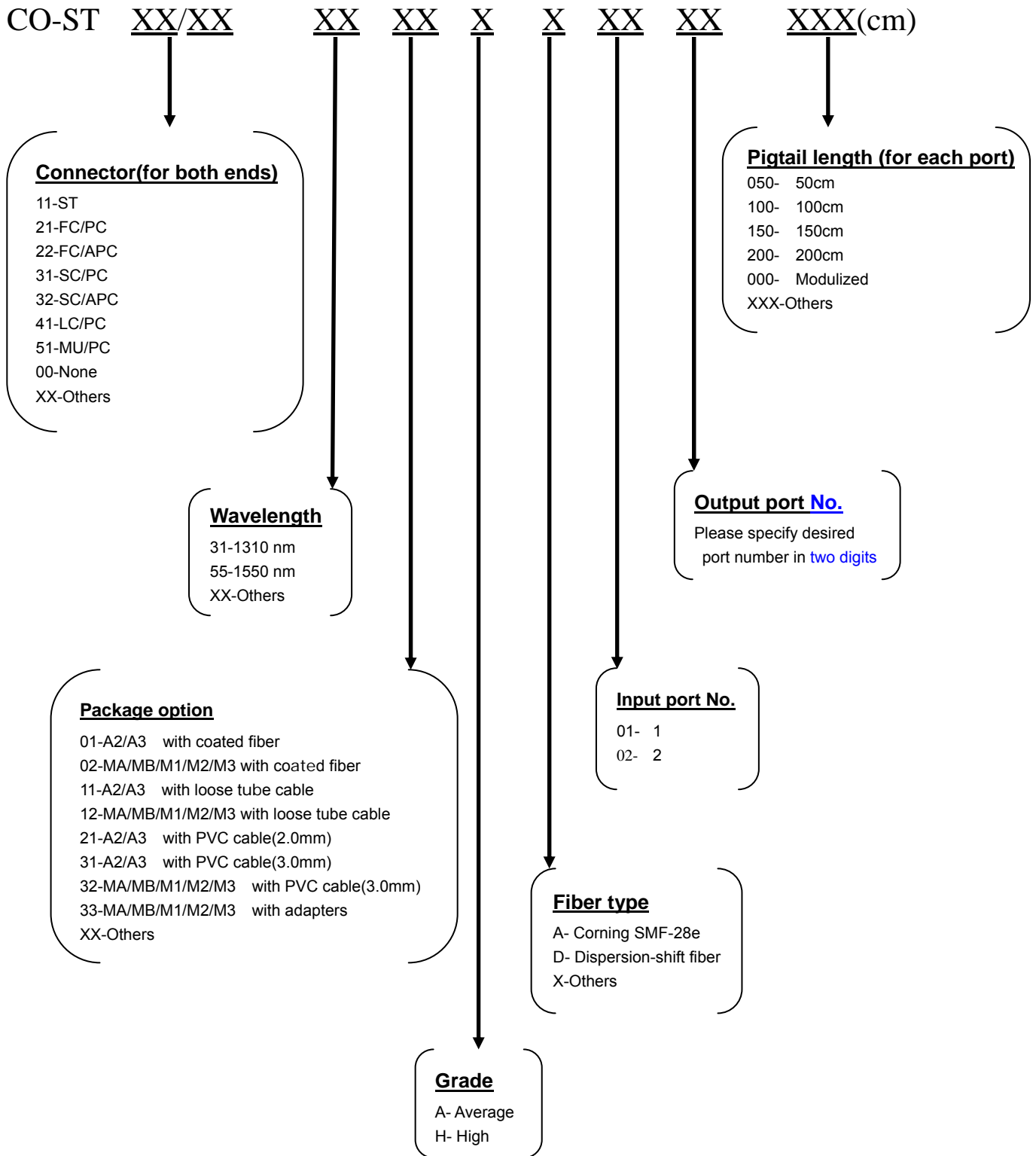


Specifications

ITEM	VALUE							
	Port Configuration	1(2)×4		1(2)×8		1(2)×16		1(2)×32
Operation Wavelength, nm	1310nm±10 or 1550nm±10							
Grade	H	A	H	A	H	A	H	A
Insertion Loss ,dB	6.6	7.2	10	11.5	13.6	14.5	17.1	28.2
Uniformity, dB	0.7	1.7	1.1	2.5	1.7	3.5	2.2	4.3
Operation Temperature, °C	-40°C ~ 85°C (*)							
Storage temperature, °C	-55 °C ~ 85°C							
Package Options (for different pigtail)								
1.coated fiber (250 μ m)	A2,MA,MB,M3	A3,MA,MB,M3	MA,MB,M1	M1,M2				
2.Loose tube (900 μ m)	A2,MA,MB,M3	A3,MA,MB,M3	MA,MB,M1	M1,M2				
3.PVC cable(3.0mm)	A2,MA,MB,M3	A3,MA,MB,M3	MA,MB,M1	M1,M2				

Note: (*) -20°C ~ +70°C for PVC cable

Singlemode Tree Coupler Ordering information



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Lfo

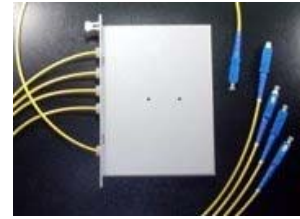
Wideband Tree Coupler

Features

- Low insertion Loss
- Customized Package available
- Environmentally stable.

Applications

- Telecommunication networks
- LAN
- FTTH deployments
- Video transmission
- Fiber optic sensing
- Testing instruments

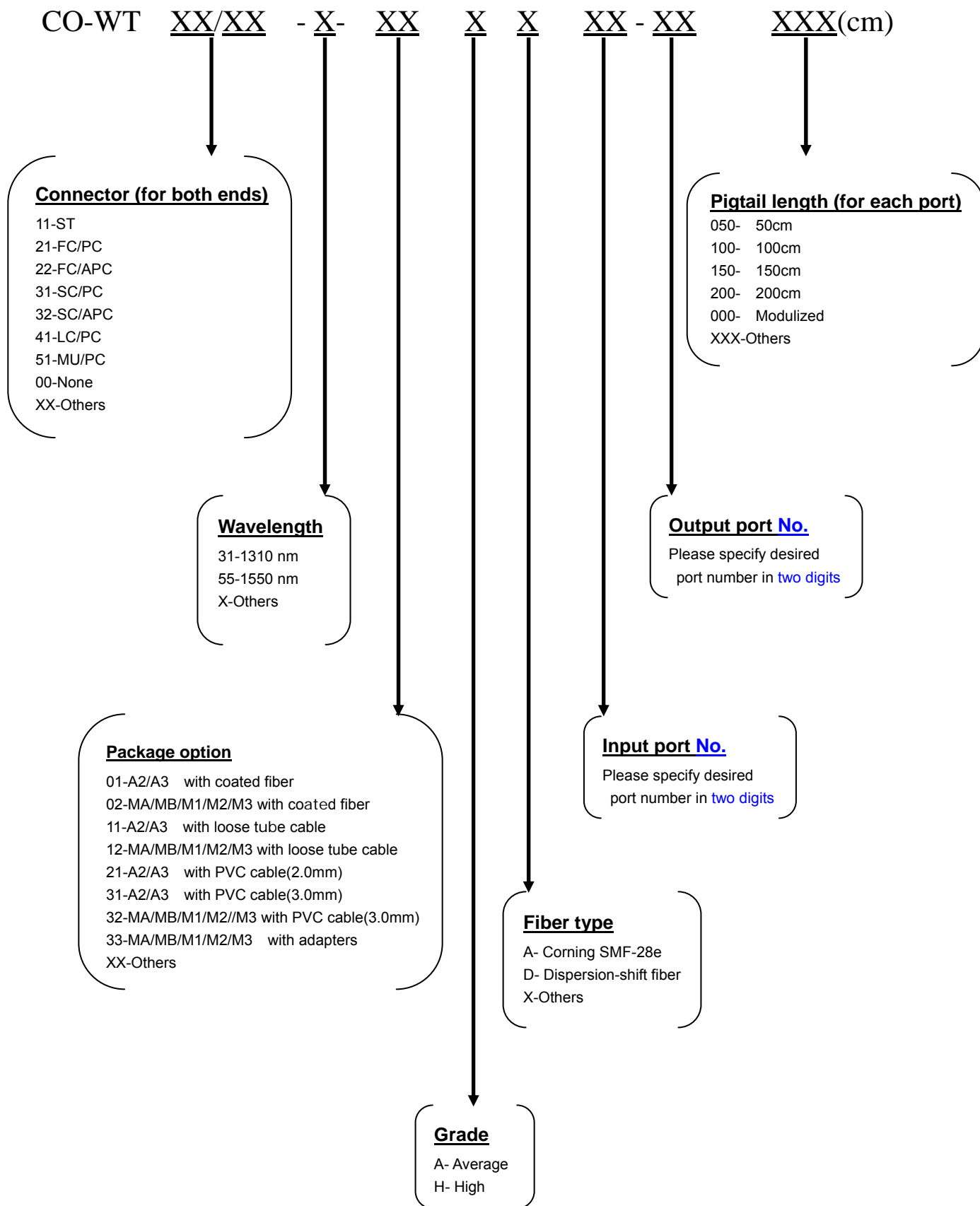


Specifications

ITEM	VALUE							
Port Configuration	1(2)×4		1(2)×8		1(2)×16		1(2)×32	
Operation Wavelength, nm	1310nm±40 or 1550nm±40							
Grade	H	A	H	A	H	A	H	A
Insertion Loss ,dB	7.0	7.4	10.6	11.5	14.0	15.3	18	19
Uniformity, dB	0.8	1.2	1.4	3.0	2.4	3.8	2.6	5.0
Operation Temperature, °C	-40°C ~ 85°C (*)							
Storage temperature, °C	-55°C ~ 85°C							
Package Options (for different pigtail)								
1.coated fiber (250µm)	A2,MA,MB,M3		A3,MA,MB,M3		MA,MB,M1		M1,M2	
2.Loose tube (900µm)	A2,MA,MB,M3		A3,MA,MB,M3		MA,MB,M1		M1,M2	
3.PVC cable(3.0mm)	A2,MA,MB,M3		A3,MA,MB,M3		MA,MB,M1		M1,M2	

Note: (*) -20°C ~ +70°C for PVC cable.

Wideband Tree Coupler Ordering information



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Lfo

Dual Window Tree Coupler

Features

- Low insertion Loss
- Customized Package available
- Environmentally stable.

Applications

- Telecommunication networks
- LAN
- FTTH deployments
- Video transmission
- Fiber optic sensing
- Testing instruments



Specifications

ITEM	VALUE							
Port Configuration	1(2)×4		1(2)×8		1(2)×16		1(2)×32	
Operation Wavelength, nm	1310nm±40 and 1550nm±40							
Grade	H	A	H	A	H	A	H	A
Insertion Loss ,dB	7.2	7.6	11.0	11.7	14.5	15.5	18.5	20.0
Uniformity, dB	0.9	1.4	2.1	3.2	2.6	4.0	3.0	6.0
Operation Temperature, °C	-40°C ~ 85°C(*)							
Storage temperature, °C	-55°C ~ 85°C							
Package Options (for different pigtail)								
1.coated fiber (250 μm)	A2,MA,MB,M3	A3,MA,MB,M3	MA,MB,M1		M1,M2			
2.Loose tube (900 μm)	A2,MA,MB,M3	A3,MA,MB,M3	MA,MB,M1		M1,M2			
3.PVC cable(3.0mm)	A2,MA,MB,M3	A3,MA,MB,M3	MA,MB,M1		M1,M2			

Note: (*) -20°C ~ +70°C for PVC cable

Dual Window Tree Coupler Ordering information

CO-DT XX/XX -35 - XX X XX XX XXX(cm)

Connector(for both ends)

- 11-ST
- 21-FC/PC
- 22-FC/APC
- 31-SC/PC
- 32-SC/APC
- 41-LC/PC
- 51-MU/PC
- 00-None
- XX-Others

Pigtail length (for each port)

- 050- 50cm
- 100- 100cm
- 150- 150cm
- 200- 200cm
- 000- Modulized
- XXX-Others

Wavelength
35-1310/1550 nm

Output port No.
Please specify desired port number in **two digits**

Package option

- 01-A2/A3 with coated fiber
- 02-MA/MB/M1/M2/M3 with coated fiber
- 11-A2/A3 with loose tube cable
- 12-MA/MB/M1/M2/M3 with loose tube cable
- 21-A2/A3 with PVC cable(2.0mm)
- 31-A2/A3 with PVC cable(3.0mm)
- 32-MA/MB/M1/M2/M3 with PVC cable(3.0mm)
- 33-MA/MB/M1/M2/M3 with adapters
- XX-Others

Input port No.

- 03- 1
- 04- 2

Grade

- A- Average
- H- High

Dual Window Star Coupler

Features

- Low insertion Loss
- Customized Package available
- Environmentally stable.

Applications

- Telecommunication networks
- LAN
- FTTH deployments
- Video transmission
- Fiber optic sensing
- Testing instruments

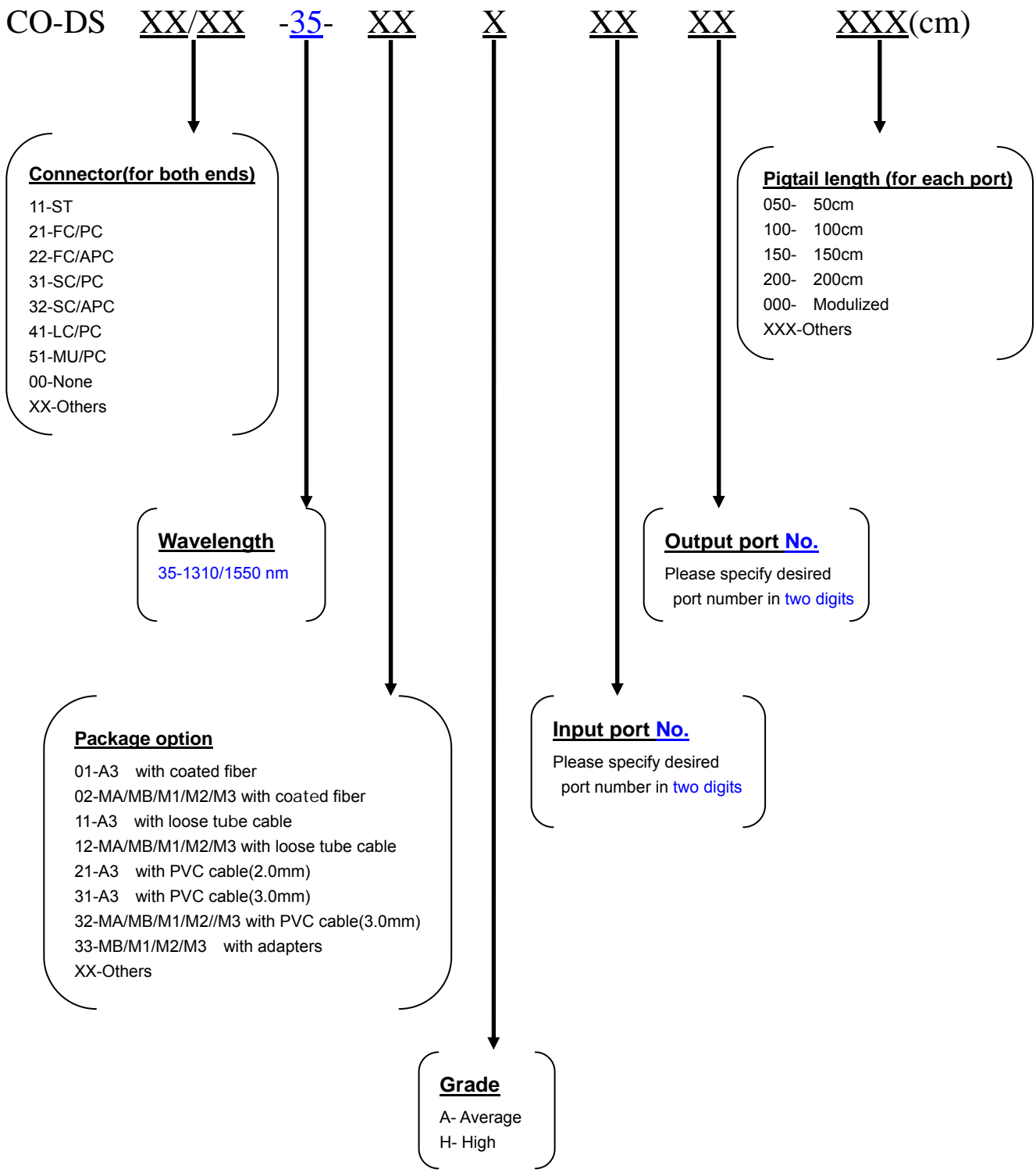


Specifications

ITEM	VALUE							
Port Configuration	4×4		8×8		16×16		32×32	
Operation Wavelength, nm	1310nm±40 and 1550nm±40							
Grade	H	A	H	A	H	A	H	A
Insertion Loss, dB	7.2	7.6	10.8	11.7	14.5	15.5	18.5	20.0
Uniformity, Db	1.0	1.4	2.1	3.2	2.7	4.0	3.0	6.0
Operation Temperature, °C	-40°C ~ 85°C(*)							
Storage temperature, °C	-55°C ~ 85°C							
Package Options (for different pigtail)								
1.coated fiber (250µm)	A3,MA,MB,M3		MB,M1,M2		M1,M2		M2	
2.Loose tube (900µm)	A3,MA,MB,M3		MB,M1,M2		M1,M2		M2	
3.PVC cable(3.0mm)	A3,MB,M3		MB,M1,M2		M1,M2		M2	

Note: (*) -20°C ~ +70°C for PVC cable

Dual Window Star Coupler Ordering information



Unitary 1×3 and 3×3 Coupler

Features

- Low insertion Loss
- High uniformity
- Customized Package available
- Environmentally stable.

Applications

- Telecommunication networks
- LAN
- FTTH deployments
- Video transmission
- Fiber optic sensing
- Testing instruments

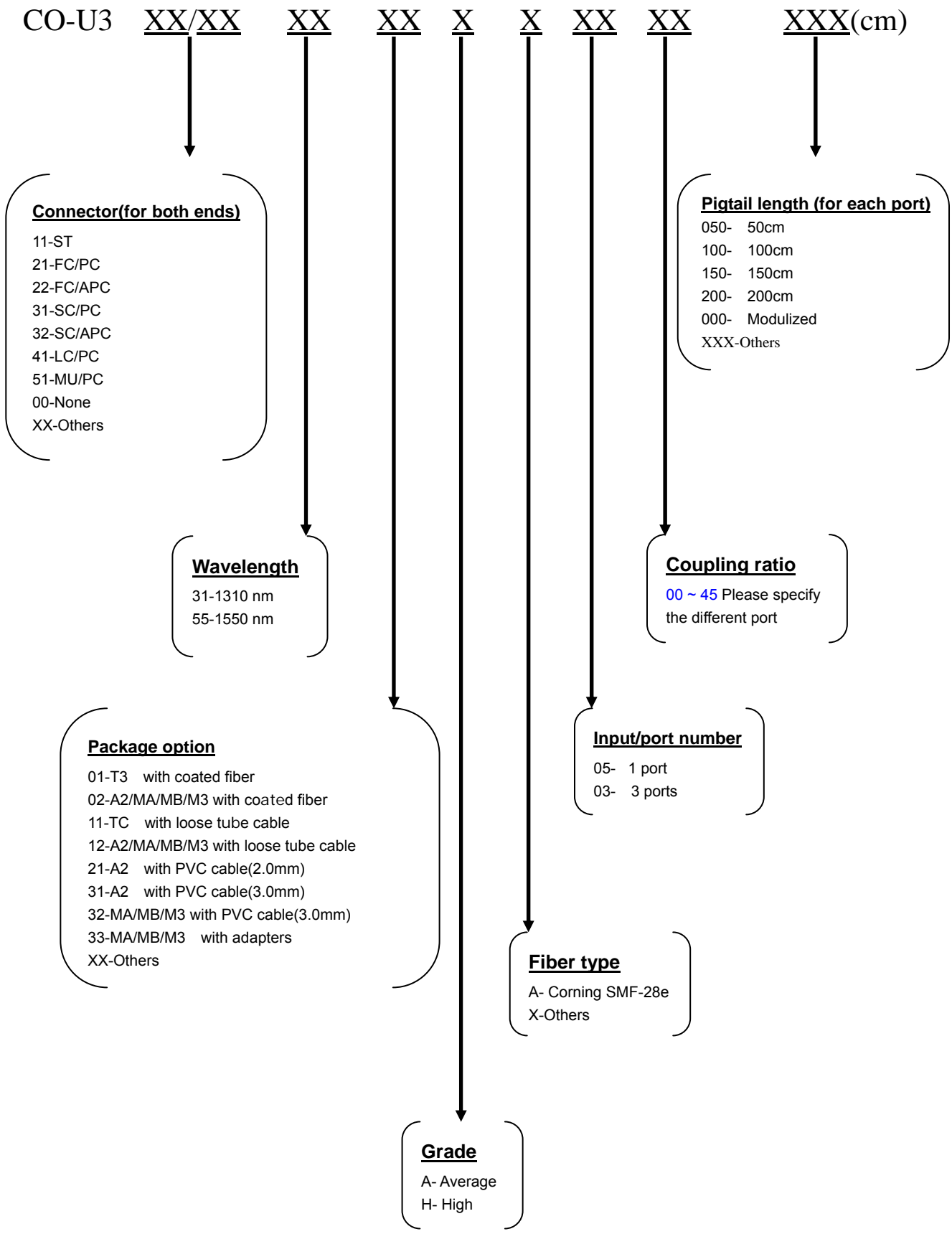


Specifications

ITEM	VALUE			
Port Configuration	1×3		3×3	
Operation Wavelength	1310nm±10 or 1550nm±10			
Grade	High(H)	Average(A)	High(H)	Average(A)
Insertion Loss (dB)	5.6	6.3	6.2	6.5
Uniformity, dB(33:33:33)	0.9	1.3	1.5	2.2
Thermal Stability, dB(peak-peak)	≤ 0.4			
Polarization Stability, dB	≤ 0.2			
Coupling Ratio	33 : 33 : 33 or Customer Specify			
Directivity ,dB	≥ 50(1×3), ≥ 60(3×3)			
Reflectance, dB	≥ 50			
Operation Temperature, °C	-40°C ~ 85°C(*)			
Storage temperature, °C	-55°C ~ 85°C			
Package Options (for different pigtail)				
1.coated fiber (250µm)	T3,A2,MA,MB,M3			
2.Loose tube (900µm)	TC,A2,MA,MB,M3			
3.PVC cable(3.0mm)	TC,A2,MA,MB,M3			

Note: (*) -20°C ~ +70°C for PVC cable.

Unitary 1x3 and 3x3 Coupler Ordering information



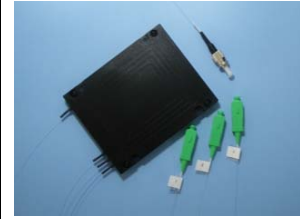
Unitary 1×3 Wideband Coupler

Features

- Low insertion Loss
- High uniformity
- Customized Package available
- Environmentally stable.

Applications

- Telecommunication networks
- LAN
- FTTH deployments
- Video transmission
- Fiber optic sensing
- Testing instruments



Specifications

ITEM	VALUE	
Operation Wavelength	1310nm±30 or 1550nm±30	
Port Configuration	1×3	
Grade	High(H)	Average(A)
Insertion Loss ,dB	5.8	6.3
Uniformity, dB(33:33:33)	1.2	1.7
Thermal Stability, dB(peak-peak)	≧ 0.4	
Polarization Stability, dB	≧ 0.2	
Coupling Ratio	33 : 33 : 33 or Customer Specify	
Directivity, dB	≧ 50	
Reflectance, dB	≧ 50	
Operation Temperature, °C	-40°C ~ 85°C (*)	
Storage temperature, °C	-55°C ~ 85°C	
Package Options (for different pigtail)		
1.coated fiber (250µm)	T3,A2,MA,MB,M3	
2.Loose tube (900µm)	TC,A2,MA,MB,M3	
3.PVC cable(3.0mm)	A2,MA,MB,M3	

Note: (*) -20°C ~ +70°C for PVC cable

Unitary 1x3 Wideband Coupler Ordering information

CO-U1 XX/XX XX XX X X XX XXX(cm)

Connector(for both ends)
 11-ST
 21-FC/PC
 22-FC/APC
 31-SC/PC
 32-SC/APC
 41-LC/PC
 51-MU/PC
 00-None
 XX-Others

Pigtail length (for each port)
 050- 50cm
 100- 100cm
 150- 150cm
 200- 200cm
 000- Modulized
 XXX-Others

Wavelength
 31-1310 nm
 55-1550 nm

Coupling ratio
 05 ~ 45 Please specify
 the different port

Package option
 01-T3 with coated fiber
 02-A2/MA/MB with coated fiber
 11-TC with loose tube cable
 12-A2/MA/MB with loose tube cable
 21-A2 with PVC cable(2.0mm)
 31-A2 with PVC cable(3.0mm)
 32-MA/MB with PVC cable(3.0mm)
 33-MA/MB with adapters
 XX-Others

Fiber type
 A- Corning SMF-28e
 X-Others

Grade
 A- Average
 H- High

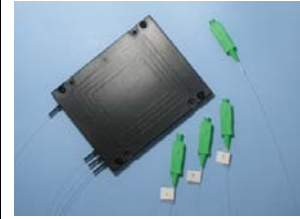
Unitary 1×3 and 1×4 Dual Window Wideband Coupler

Features

- Low insertion Loss
- High uniformity
- Customized Package available
- Environmentally stable.

Applications

- Telecommunication networks
- LAN
- FTTH deployments
- Video transmission
- Fiber optic sensing
- Testing instruments



Specifications

ITEM	VALUE	
Operation Wavelength	1310nm±40 and 1550nm±40	
Port Configuration	1×3	1×4
Coupling Ratio	33 : 33 : 33	25 : 25 : 25 : 25
Insertion Loss (dB)	5.4	7.2
Uniformity, dB(Typical)	1.0	1.5
Excess Loss, dB(Typical)	0.15	0.30
Polarization Stability, dB	0.3	
Return Loss, dB	50	
Operation Temperature ,°C	-40°C ~ 85°C(*)	
Storage temperature, °C	-55°C ~ 85°C	
Package Options (for different pigtail)		
1.coated fiber (250 μm)	3*60mm	
2.Loose tube (900 μm)	4*70mm	

Note: (*) -20°C ~ +70°C for PVC cable

Unitary 1x3 and 1x4 Dual Window Wideband Coupler Ordering information

CO-U4 XX/XX -35 - XX X X XX XX XXX(cm)

Connector(for both ends)

- 11-ST
- 21-FC/PC
- 22-FC/APC
- 31-SC/PC
- 32-SC/APC
- 41-LC/PC
- 51-MU/PC
- 00-None
- XX-Others

Wavelength

35-1310 / 1550 nm

Pigtail length (for each port)

- 050- 50cm
- 100- 100cm
- 150- 150cm
- 200- 200cm
- 000- Modulized
- XXX-Others

Coupling ratio

- 25- 25:25:25:25
- 33- 33:33:33
- XX-Others

Package option

- 01-Metal tube with coated fiber
- 11-Metal tube with loose tube cable(900um)
- XX-Others

Input/output port

- 13- 1 x 3
- 14- 1 x 4

Fiber type

- A- Corning SMF-28e
- X-Others

Grade

- A- Average
- H- High

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