

# Outside Plant Cable



## ① Direct Buried Cable

Direct buried cable can be buried directly into the ground in a trench or using a vibratory plow. Except for with great water-blocking and moisture-proof performance, it also has good crushing and mechanical performance. With metallic central strength members, it offers ease of location while dielectric design eliminates grounding issues.

## ② Duct Cable

Duct cables are typically buried, and then the cables are air-blown, jetted, pulled or pushed into the duct. It features high tensile strength and excellent waterproof protection. Usually armored cables are installed under floors in data centers or in rocky soil, as well as to prevent rodent penetration.

## ③ Aerial Cable

Aerial Cables are for outside installation on poles where consideration must be given to continual tension from the cable weight as well as wind and ice loads. It can be helically lashed to a messenger or another cable. Self-supporting cables use special hardware to handle the installed tension on the cables caused by the weight of the cables and environmental factors like wind.

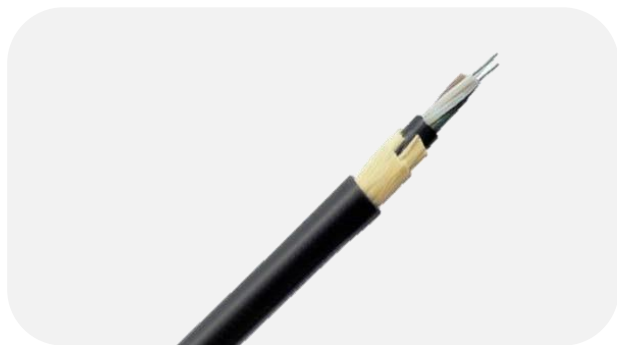
## ADSS Fiber Cable

### ADSS Outdoor Cable GYFTCY

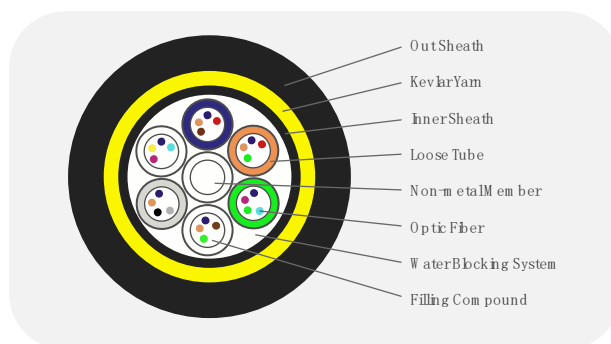
The fibres are in jelly-filled loose tubes, laid up around a central non-metallic strength member. The cable is water blocked, aramid yarn reinforced and PE or AT sheathed.

ADSS (All Dielectric Self-Supporting) Cable is suspended from poles or towers in telecommunication and power outside plant applications.

#### ADSS Outdoor Cable GYFTCY



#### Inner Structure-CYFTCY



## Features and Benefits

- The lifespan is over 30 years
- Large span with the largest span of over 1000m
- Can be installed without shutting off the power
- Central strength member FRP gives high tensile strength
- Water blocking system ensures reliable waterproof performance
- PE or AT sheath ensures safety of cable in high voltage environment
- All-dielectric structure and light weight provide easy installation and good electromagnetic resistance

## Application

- Railways, power and telecommunication pole routes
- Can be used in areas with high electrical field strength
- Suitable for installation on poles and on the power distribution network

### Technical Specification

Parameter	Unit	Range	12F	24F	36F	48F	72F	96F	144F
Rated Tensile Strength	KN	Min	24	30	34	35	57	80	124
		Max	70	75	80	85	108	130	176
Modulus of Elasticity	KN/mm <sup>2</sup>	Min	10.8	11.8	12.5	13.2	18.5	23.8	34.4
		Max	19.6	19.8	20.0	20.1	25.1	30.4	41
Thermal Expansion	X10 <sup>-6</sup> /°C	Min	0.1	0.1	0.1	0.1	-0.5	-0.8	-1.0
		Max	1.2	1.0	0.9	0.9	0.2	0.2	0.1
Storage Temperature	°C	40 to +70							

### Optical Characteristic

Parameter	Unit	G.652		50/125μm		62.5/125μm	
Attenuation	dB/km	1310nm	≤0.36	850nm	≤3.0	850nm	≤3.0
		1550nm	≤0.22	1300nm	≤1.0	1300nm	≤1.0
Bandwidth	MHz-km			850nm	≥600	850nm	≥200
				1300nm	≥1200	1300nm	≥600
Numerical Aperture	NA			0.200±0.015		0.275±0.015	

## Order Information

### 12 Fibers with PE Jacket

Span	Fiber Type	Part Number	Cable Diameter (mm)	Weight (kg/km)
50M	9/125 OS2	GYFTCY-OS2-12F-PE50	13.6	145
	62.5/125 OM1	GYFTCY-OM1-12F-PE50	13.6	145
	50/125 OM2	GYFTCY-OM2-12F-PE50	13.6	145
100M	9/125 OS2	GYFTCY-OS2-12F-PE100	13.8	150
	62.5/125 OM1	GYFTCY-OM1-12F-PE100	13.8	150
	50/125 OM2	GYFTCY-OM2-12F-PE100	13.8	150
300M	9/125 OS2	GYFTCY-OS2-12F-P E300	14.2	160
	62.5/125 OM1	GYFTCY-OM1-12F-PE300	14.2	160
	50/125 OM2	GYFTCY-OM2-12F-PE300	14.2	160
400M	9/125 OS2	GYFTCY-OS2-12F-PE400	14.5	165
	62.5/125 OM1	GYFTCY-OM1-12F-PE400	14.5	165
	50/125 OM2	GYFTCY-OM2-12F-PE400	14.5	165
800M	9/125 OS2	GYFTCY-OS2-12F-PE800	15.3	185
	62.5/125 OM1	GYFTCY-OM1-12F-PE800	15.3	185
	50/125 OM2	GYFTCY-OM2-12F-PE800	15.3	185
1000M	9/125 OS2	GYFTCY-OS2-12F-PE1000	15.6	195
	62.5/125 OM1	GYFTCY-OM1-12F-PE1000	15.6	195
	50/125 OM2	GYFTCY-OM2-12F-PE1000	15.6	195

## Order Information

### 24 Fibers with PE Jacket

Span	Fiber Type	Part Number	Cable Diameter (mm)	Weight (kg/km)
50M	9/125 OS2	GYFTCY-OS2-24F-PE50	13.8	150
	62.5/125 OM1	GYFTCY-OM1-24F-PE50	13.8	150
	50/125 OM2	GYFTCY-OM2-24F-PE50	13.8	150
100M	9/125 OS2	GYFTCY-OS2-24F-PE100	14.0	155
	62.5/125 OM1	GYFTCY-OM1-24F-PE100	14.0	155
	50/125 OM2	GYFTCY-OM2-24F-PE100	14.0	155
300M	9/125 OS2	GYFTCY-OS2-24F-P E300	14.5	165
	62.5/125 OM1	GYFTCY-OM1-24F-PE300	14.5	165
	50/125 OM2	GYFTCY-OM2-24F-PE300	14.5	165
400M	9/125 OS2	GYFTCY-OS2-24F-PE400	14.9	170
	62.5/125 OM1	GYFTCY-OM1-24F-PE400	14.9	170
	50/125 OM2	GYFTCY-OM2-24F-PE400	14.9	170
800M	9/125 OS2	GYFTCY-OS2-24F-PE800	15.5	190
	62.5/125 OM1	GYFTCY-OM1-24F-PE800	15.5	190
	50/125 OM2	GYFTCY-OM2-24F-PE800	15.5	190
1000M	9/125 OS2	GYFTCY-OS2-24F-PE1000	16.0	200
	62.5/125 OM1	GYFTCY-OM1-24F-PE1000	16.0	200
	50/125 OM2	GYFTCY-OM2-24F-PE1000	16.0	200

## Order Information

### 36 Fibers with PE Jacket

Span	Fiber Type	Part Number	Cable Diameter (mm)	Weight (kg/km)
50M	9/125 OS2	GYFTCY-OS2-36F-PE50	14.0	155
	62.5/125 OM1	GYFTCY-OM1-36F-PE50	14.0	155
	50/125 OM2	GYFTCY-OM2-36F-PE50	14.0	155
100M	9/125 OS2	GYFTCY-OS2-36F-PE100	14.2	160
	62.5/125 OM1	GYFTCY-OM1-36F-PE100	14.2	160
	50/125 OM2	GYFTCY-OM2-36F-PE100	14.2	160
300M	9/125 OS2	GYFTCY-OS2-36F-PE300	14.9	170
	62.5/125 OM1	GYFTCY-OM1-36F-PE300	14.9	170
	50/125 OM2	GYFTCY-OM2-36F-PE300	14.9	170
400M	9/125 OS2	GYFTCY-OS2-36F-PE400	15.0	175
	62.5/125 OM1	GYFTCY-OM1-36F-PE400	15.0	175
	50/125 OM2	GYFTCY-OM2-36F-PE400	15.0	175
800M	9/125 OS2	GYFTCY-OS2-36F-PE800	15.6	195
	62.5/125 OM1	GYFTCY-OM1-36F-PE800	15.6	195
	50/125 OM2	GYFTCY-OM2-36F-PE800	15.6	195
1000M	9/125 OS2	GYFTCY-OS2-36F-PE1000	16.2	205
	62.5/125 OM1	GYFTCY-OM1-36F-PE1000	16.2	205
	50/125 OM2	GYFTCY-OM2-36F-PE1000	16.2	205

## Order Information

### 48 Fibers with PE Jacket

Span	Fiber Type	Part Number	Cable Diameter (mm)	Weight (kg/km)
<b>50M</b>	9/125 OS2	GYFTCY-OS2-48F-PE50	14.2	160
	62.5/125 OM1	GYFTCY-OM1-48F-PE50	14.2	160
	50/125 OM2	GYFTCY-OM2-48F-PE50	14.2	160
<b>100M</b>	9/125 OS2	GYFTCY-OS2-48F-PE100	14.5	165
	62.5/125 OM1	GYFTCY-OM1-48F-PE100	14.5	165
	50/125 OM2	GYFTCY-OM2-48F-PE100	14.5	165
<b>300M</b>	9/125 OS2	GYFTCY-OS2-48F-PE300	15.0	175
	62.5/125 OM1	GYFTCY-OM1-48F-PE300	15.0	175
	50/125 OM2	GYFTCY-OM2-48F-PE300	15.0	175
<b>400M</b>	9/125 OS2	GYFTCY-OS2-48F-PE400	15.1	180
	62.5/125 OM1	GYFTCY-OM1-48F-PE400	15.1	180
	50/125 OM2	GYFTCY-OM2-48F-PE400	15.1	180
<b>800M</b>	9/125 OS2	GYFTCY-OS2-48F-PE800	16.0	200
	62.5/125 OM1	GYFTCY-OM1-48F-PE800	16.0	200
	50/125 OM2	GYFTCY-OM2-48F-PE800	16.0	200
<b>1000M</b>	9/125 OS2	GYFTCY-OS2-48F-PE1000	16.3	210
	62.5/125 OM1	GYFTCY-OM1-48F-PE1000	16.3	210
	50/125 OM2	GYFTCY-OM2-48F-PE1000	16.3	210

## Order Information

### 72 Fibers with PE Jacket

Span	Fiber Type	Part Number	Cable Diameter (mm)	Weight (kg/km)
<b>50M</b>	9/125 OS2	GYFTCY-OS2-72F-PE50	15.3	185
	62.5/125 OM1	GYFTCY-OM1-72F-PE50	15.3	185
	50/125 OM2	GYFTCY-OM2-72F-PE50	15.3	185
<b>100M</b>	9/125 OS2	GYFTCY-OS2-72F-PE100	15.5	190
	62.5/125 OM1	GYFTCY-OM1-72F-PE100	15.5	190
	50/125 OM2	GYFTCY-OM2-72F-PE100	15.5	190
<b>300M</b>	9/125 OS2	GYFTCY-OS2-72F-PE300	16.0	200
	62.5/125 OM1	GYFTCY-OM1-72F-PE300	16.0	200
	50/125 OM2	GYFTCY-OM2-72F-PE300	16.0	200
<b>400M</b>	9/125 OS2	GYFTCY-OS2-72F-PE400	16.2	205
	62.5/125 OM1	GYFTCY-OM1-72F-PE400	16.2	205
	50/125 OM2	GYFTCY-OM2-72F-PE400	16.2	205
<b>800M</b>	9/125 OS2	GYFTCY-OS2-72F-PE800	16.9	225
	62.5/125 OM1	GYFTCY-OM1-72F-PE800	16.9	225
	50/125 OM2	GYFTCY-OM2-72F-PE800	16.9	225
<b>1000M</b>	9/125 OS2	GYFTCY-OS2-72F-PE1000	17.2	235
	62.5/125 OM1	GYFTCY-OM1-72F-PE1000	17.2	235
	50/125 OM2	GYFTCY-OM2-72F-PE1000	17.2	235



## Order Information

### 96 Fibers with PE Jacket

Span	Fiber Type	Part Number	Cable Diameter (mm)	Weight (kg/km)
<b>50M</b>	9/125 OS2	GYFTCY-OS2-72F-PE50	16.4	210
	62.5/125 OM1	GYFTCY-OM1-72F-PE50	16.4	210
	50/125 OM2	GYFTCY-OM2-72F-PE50	16.4	210
<b>100M</b>	9/125 OS2	GYFTCY-OS2-72F-PE100	16.6	215
	62.5/125 OM1	GYFTCY-OM1-72F-PE100	16.6	215
	50/125 OM2	GYFTCY-OM2-72F-PE100	16.6	215
<b>300M</b>	9/125 OS2	GYFTCY-OS2-72F-PE300	17.1	225
	62.5/125 OM1	GYFTCY-OM1-72F-PE300	17.1	225
	50/125 OM2	GYFTCY-OM2-72F-PE300	17.1	225
<b>400M</b>	9/125 OS2	GYFTCY-OS2-72F-PE400	17.3	230
	62.5/125 OM1	GYFTCY-OM1-72F-PE400	17.3	230
	50/125 OM2	GYFTCY-OM2-72F-PE400	17.3	230

## Order Information

### 144 Fibers with PE Jacket

Span	Fiber Type	Part Number	Cable Diameter (mm)	Weight (kg/km)
<b>50M</b>	9/125 OS2	GYFTCY-OS2-72F-PE50	17.5	260
	62.5/125 OM1	GYFTCY-OM1-72F-PE50	17.5	260
	50/125 OM2	GYFTCY-OM2-72F-PE50	17.5	260
<b>100M</b>	9/125 OS2	GYFTCY-OS2-72F-PE100	17.7	265
	62.5/125 OM1	GYFTCY-OM1-72F-PE100	17.7	265
	50/125 OM2	GYFTCY-OM2-72F-PE100	17.7	265
<b>300M</b>	9/125 OS2	GYFTCY-OS2-72F-PE300	18.2	275
	62.5/125 OM1	GYFTCY-OM1-72F-PE300	18.2	275
	50/125 OM2	GYFTCY-OM2-72F-PE300	18.2	275
<b>400M</b>	9/125 OS2	GYFTCY-OS2-72F-PE400	18.4	280
	62.5/125 OM1	GYFTCY-OM1-72F-PE400	18.4	280
	50/125 OM2	GYFTCY-OM2-72F-PE400	18.4	280

## Order Information

### 12 Fibers with AT Jacket

Span	Fiber Type	Part Number	Cable Diameter (mm)	Weight (kg/km)
<b>50M</b>	9/125 OS2	GYFTCY-OS2-12F-AT50	13.6	155
	62.5/125 OM1	GYFTCY-OM1-12F-AT50	13.6	155
	50/125 OM2	GYFTCY-OM2-12F-AT50	13.6	155
<b>100M</b>	9/125 OS2	GYFTCY-OS2-12F-AT100	13.8	160
	62.5/125 OM1	GYFTCY-OM1-12F-AT100	13.8	160
	50/125 OM2	GYFTCY-OM2-12F-AT100	13.8	160
<b>300M</b>	9/125 OS2	GYFTCY-OS2-12F-AT300	14.2	170
	62.5/125 OM1	GYFTCY-OM1-12F-AT300	14.2	170
	50/125 OM2	GYFTCY-OM2-12F-AT300	14.2	170
<b>400M</b>	9/125 OS2	GYFTCY-OS2-12F-AT400	14.5	175
	62.5/125 OM1	GYFTCY-OM1-12F-AT400	14.5	175
	50/125 OM2	GYFTCY-OM2-12F-AT400	14.5	175
<b>800M</b>	9/125 OS2	GYFTCY-OS2-12F-AT800	15.3	195
	62.5/125 OM1	GYFTCY-OM1-12F-AT800	15.3	195
	50/125 OM2	GYFTCY-OM2-12F-AT800	15.3	195
<b>1000M</b>	9/125 OS2	GYFTCY-OS2-12F-AT1000	15.6	205
	62.5/125 OM1	GYFTCY-OM1-12F-AT1000	15.6	205
	50/125 OM2	GYFTCY-OM2-12F-AT1000	15.6	205

## Order Information

### 24 Fibers with AT Jacket

Span	Fiber Type	Part Number	Cable Diameter (mm)	Weight (kg/km)
<b>50M</b>	9/125 OS2	GYFTCY-OS2-24F-AT50	13.8	160
	62.5/125 OM1	GYFTCY-OM1-24F-AT50	13.8	160
	50/125 OM2	GYFTCY-OM2-24F-AT50	13.8	160
<b>100M</b>	9/125 OS2	GYFTCY-OS2-24F-AT100	14.0	165
	62.5/125 OM1	GYFTCY-OM1-24F-AT100	14.0	165
	50/125 OM2	GYFTCY-OM2-24F-AT100	14.0	165
<b>300M</b>	9/125 OS2	GYFTCY-OS2-24F-AT300	14.5	175
	62.5/125 OM1	GYFTCY-OM1-24F-AT300	14.5	175
	50/125 OM2	GYFTCY-OM2-24F-AT300	14.5	175
<b>400M</b>	9/125 OS2	GYFTCY-OS2-24F-AT400	14.9	180
	62.5/125 OM1	GYFTCY-OM1-24F-AT400	14.9	180
	50/125 OM2	GYFTCY-OM2-24F-AT400	14.9	180
<b>800M</b>	9/125 OS2	GYFTCY-OS2-24F-AT800	15.5	200
	62.5/125 OM1	GYFTCY-OM1-24F-AT800	15.5	200
	50/125 OM2	GYFTCY-OM2-24F-AT800	15.5	200
<b>1000M</b>	9/125 OS2	GYFTCY-OS2-24F-AT1000	16.0	210
	62.5/125 OM1	GYFTCY-OM1-24F-AT1000	16.0	210
	50/125 OM2	GYFTCY-OM2-24F-AT1000	16.0	210

## Order Information

### 36 Fibers with AT Jacket

Span	Fiber Type	Part Number	Cable Diameter (mm)	Weight (kg/km)
<b>50M</b>	9/125 OS2	GYFTCY-OS2-36F-AT50	14.0	165
	62.5/125 OM1	GYFTCY-OM1-36F-AT50	14.0	165
	50/125 OM2	GYFTCY-OM2-36F-AT50	14.0	165
<b>100M</b>	9/125 OS2	GYFTCY-OS2-36F-AT100	14.2	170
	62.5/125 OM1	GYFTCY-OM1-36F-AT100	14.2	170
	50/125 OM2	GYFTCY-OM2-36F-AT100	14.2	170
<b>300M</b>	9/125 OS2	GYFTCY-OS2-36F-AT300	14.9	180
	62.5/125 OM1	GYFTCY-OM1-36F-AT300	14.9	180
	50/125 OM2	GYFTCY-OM2-36F-AT300	14.9	180
<b>400M</b>	9/125 OS2	GYFTCY-OS2-36F-AT400	15.0	185
	62.5/125 OM1	GYFTCY-OM1-36F-AT400	15.0	185
	50/125 OM2	GYFTCY-OM2-36F-AT400	15.0	185
<b>800M</b>	9/125 OS2	GYFTCY-OS2-36F-AT800	15.6	205
	62.5/125 OM1	GYFTCY-OM1-36F-AT800	15.6	205
	50/125 OM2	GYFTCY-OM2-36F-AT800	15.6	205
<b>1000M</b>	9/125 OS2	GYFTCY-OS2-36F-AT1000	16.2	215
	62.5/125 OM1	GYFTCY-OM1-36F-AT1000	16.2	215
	50/125 OM2	GYFTCY-OM2-36F-AT1000	16.2	215

## Order Information

### 48 Fibers with AT Jacket

Span	Fiber Type	Part Number	Cable Diameter (mm)	Weight (kg/km)
<b>50M</b>	9/125 OS2	GYFTCY-OS2-48F-AT50	14.2	170
	62.5/125 OM1	GYFTCY-OM1-48F-AT50	14.2	170
	50/125 OM2	GYFTCY-OM2-48F-AT50	14.2	170
<b>100M</b>	9/125 OS2	GYFTCY-OS2-48F-AT100	14.5	175
	62.5/125 OM1	GYFTCY-OM1-48F-AT100	14.5	175
	50/125 OM2	GYFTCY-OM2-48F-AT100	14.5	175
<b>300M</b>	9/125 OS2	GYFTCY-OS2-48F-AT300	15.0	185
	62.5/125 OM1	GYFTCY-OM1-48F-AT300	15.0	185
	50/125 OM2	GYFTCY-OM2-48F-AT300	15.0	185
<b>400M</b>	9/125 OS2	GYFTCY-OS2-48F-AT400	15.1	190
	62.5/125 OM1	GYFTCY-OM1-48F-AT400	15.1	190
	50/125 OM2	GYFTCY-OM2-48F-AT400	15.1	190
<b>800M</b>	9/125 OS2	GYFTCY-OS2-48F-AT800	16.0	210
	62.5/125 OM1	GYFTCY-OM1-48F-AT800	16.0	210
	50/125 OM2	GYFTCY-OM2-48F-AT800	16.0	210
<b>1000M</b>	9/125 OS2	GYFTCY-OS2-48F-AT1000	16.3	220
	62.5/125 OM1	GYFTCY-OM1-48F-AT1000	16.3	220
	50/125 OM2	GYFTCY-OM2-48F-AT1000	16.3	220

## Order Information

### 72 Fibers with AT Jacket

Span	Fiber Type	Part Number	Cable Diameter (mm)	Weight (kg/km)
<b>50M</b>	9/125 OS2	GYFTCY-OS2-72F-AT50	15.3	195
	62.5/125 OM1	GYFTCY-OM1-72F-AT50	15.3	195
	50/125 OM2	GYFTCY-OM2-72F-AT50	15.3	195
<b>100M</b>	9/125 OS2	GYFTCY-OS2-72F-AT100	15.5	200
	62.5/125 OM1	GYFTCY-OM1-72F-AT100	15.5	200
	50/125 OM2	GYFTCY-OM2-72F-AT100	15.5	200
<b>300M</b>	9/125 OS2	GYFTCY-OS2-72F-AT300	16.0	210
	62.5/125 OM1	GYFTCY-OM1-72F-AT300	16.0	210
	50/125 OM2	GYFTCY-OM2-72F-AT300	16.0	210
<b>400M</b>	9/125 OS2	GYFTCY-OS2-72F-AT400	16.2	215
	62.5/125 OM1	GYFTCY-OM1-72F-AT400	16.2	215
	50/125 OM2	GYFTCY-OM2-72F-AT400	16.2	215
<b>800M</b>	9/125 OS2	GYFTCY-OS2-72F-AT800	16.9	235
	62.5/125 OM1	GYFTCY-OM1-72F-AT800	16.9	235
	50/125 OM2	GYFTCY-OM2-72F-AT800	16.9	235
<b>1000M</b>	9/125 OS2	GYFTCY-OS2-72F-AT1000	17.2	245
	62.5/125 OM1	GYFTCY-OM1-72F-AT1000	17.2	245
	50/125 OM2	GYFTCY-OM2-72F-AT1000	17.2	245

## Order Information

### 96 Fibers with AT Jacket

Span	Fiber Type	Part Number	Cable Diameter (mm)	Weight (kg/km)
<b>50M</b>	9/125 OS2	GYFTCY-OS2-72F-AT50	16.4	220
	62.5/125 OM1	GYFTCY-OM1-72F-AT50	16.4	220
	50/125 OM2	GYFTCY-OM2-72F-AT50	16.4	220
<b>100M</b>	9/125 OS2	GYFTCY-OS2-72F-AT100	16.6	225
	62.5/125 OM1	GYFTCY-OM1-72F-AT100	16.6	225
	50/125 OM2	GYFTCY-OM2-72F-AT100	16.6	225
<b>300M</b>	9/125 OS2	GYFTCY-OS2-72F-AT300	17.1	235
	62.5/125 OM1	GYFTCY-OM1-72F-AT300	17.1	235
	50/125 OM2	GYFTCY-OM2-72F-AT300	17.1	235
<b>400M</b>	9/125 OS2	GYFTCY-OS2-72F-AT400	17.3	240
	62.5/125 OM1	GYFTCY-OM1-72F-AT400	17.3	240
	50/125 OM2	GYFTCY-OM2-72F-AT400	17.3	240





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