Optical Fiber & Cable Machinery



Optical fiber secondary coating line

Technical data



· Line speed	300m/min
· Tube dia	Φ1.7–Φ4.0mm
· Fiber excess length range	0–3‰ ± 0.5‰
· Optical–fiber reel size	25km,50km
· Take–up reel size	800mm

Line configuration

- Optical fiber pay–off
- Oscillating unit for optical fiber
- Jelly degassing and filling device
- Extruding group
- Hot water tank and trough system
- Over–length capstan
- Cooling water trough system
- Blowing dryer
- Diameter gauge
- Caterpillar
- Take–up dancer
- Dual automatic take–up
- Electrical control system





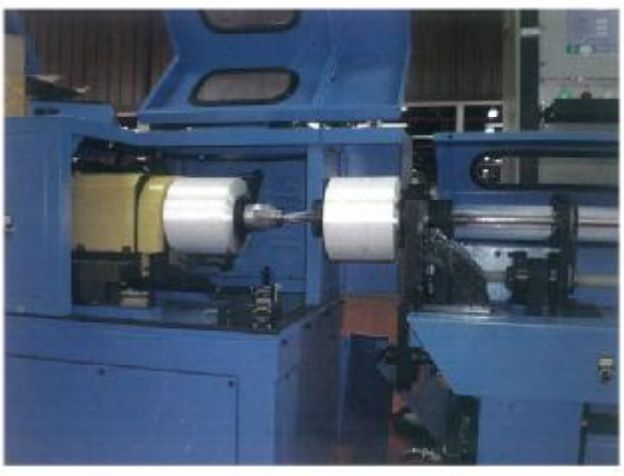
SZ stranding line for optical fiber loose tube

· Line speed	80m/min
· Product dia	Φ30mm
· Loose tube payoff qty	12
· SZ stranding manner	elastic torsion bar
· SZ stranding angle	±18π
· Binding manner	concentric cross-binding
· Binding speed	3000rpm
· Loose tube payoff reel size	800mm
· Payoff/Take-up reel size	1800mm

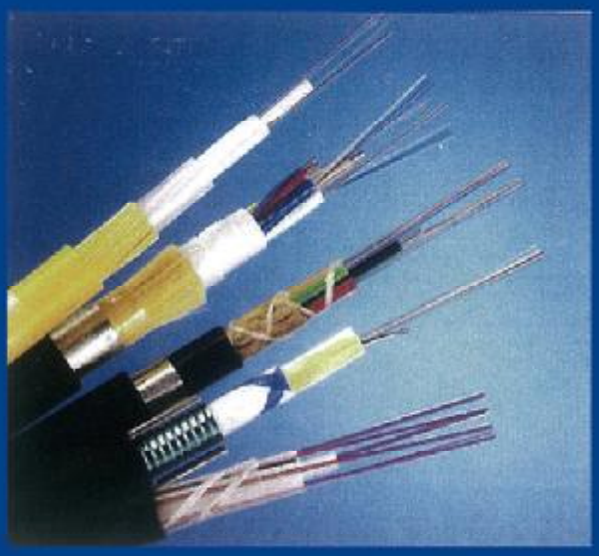
Line configuration

- Strength member pay-off
- Dual wheel tension unit
- Loose tube pay-off
- SZ oscillator
- Concentric cross-binder
- Anti-twisting device
- Jelly-filling device
- Jelly-filling device
- Dual tape pay-off and concentric binder
- Dual wheel belt capstan
- Take-up tension
- Take-up
- Electrical control system





Sheathing line



Technical data

- Line construction speed 100m/min
- Cable core dia Φ3.0–Φ25mm
- Product outer dia 30mm
- Pay–off reel size 2000mm
- Take–up reel size 2000mm

Line configuration

- Pay–off
- Tension control unit for central loose tube
- Dual wheel tension unit
- Steel–Aluminum tape pay–off
- Steel–Aluminum tape welder
- Steel–Aluminum tape accumulator
- Jelly filling system
- Swellable tape pay–off
- Steel wire pay–off
- Steel wire alignment device
- Steel tape corrugator
- Steel–Aluminum longitudinal tape applicator
- Extruding group
- Hot water tank and trough system
- Cooling water trough system
- Blowing dryer
- Diameter gauge
- Sparkle test instrument
- Length counter and character printer
- Caterpillar
- Take–up tension dancer
- Take–up
- Electrical control system



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JOC MACHINERY COMPANY LIMITED

COPOLYMER COATED ALUMINUM TAPE

Plastic clad metal consists of an aluminum tape coated on one side or both sides with an adherent ethylene–acrylic acid copolymer (EAA/PET/PE,etc). The copolymer exhibits excellent adhesion to the aluminum substrate. The color could be transparent or blue.

1 TYPE:1145,8011,ETC;
2 ALLOY STATE:O;
3 Appearance: Straight, smooth, even, free from inclusions, creases, spots.



ITEM		UNIT	INDEX	TOLERANCE
Length		m	1000–4100	+/–50
Width		m	12–1050	+/–0.5
Thickness	AL	mm	0.150or 0.200	+/–0.010
	Copolymer (EAA)	mm	0.058	+/–0.013
	Total Thickness	mm	0.260or 0.310	+/–0.015
Tensile Strength		MPA	70–120	
Elongation at Break		%	⩾15	
Peel Strength between Steel and Plastic Coating		N/cm	⩾6.13	
Heat Seal Strength		N/cm	⩾17.5	
WaterResistance68+/–1℃, 168h Peel Strength		N/cm	⩾6.13	
Filler/Floodant Resistance 68+/–1℃, 168h	SP	–	No bubble, Or Delamination	
	WT–103	–	No bubble, Or Delamination	
Dielectric Strength DC 2KV,1min		–	No breaking	
Corrosion Resistance 0.1mol/L, Hcl,480h		Grade	7	
Heat Cut Strength		breakage		

COPOLYMER COATED STEEL TAPE

Plastic clad metal consists of a chrome plated steel tape coated on one side or both sides with an adherent ethylene copolymer(EAA/PE/PET etc.). The copolymer exhibits excellent adhesion to the steel substrate. And the color is green.

1 The steel is chrome–coated, tempered to T–1 to T–3 condition;
2 Appearance: Straight, smooth, even, free from inclusions, creases, spots.



ITEM		UNIT	INDEX	TOLERANCE
Length		m	1000–5000	+/–50
Width		m	12–1100	+/–0.5
Thickness	Steel	mm	0.155, 0.200	+/–0.010
	Copolymer (EAA)	mm	0.058	+/–0.013
	Total Thickness	mm	0.26, 0.310	+/–0.015
Chromium on Steel		G/M2	0.08–0.34	
Tensile Strength		MPA	310–390	
Elongation at Break		%	⩾20	
Peel Strength between Steel and Plastic Coating		N/cm	⩾6.13	
Heat Seal Strength		N/cm	⩾17.5	
WaterResistance68+/–1℃, 168h Peel Strength		N/cm	⩾6.13	
Filler/Floodant Resistance 68+/–1℃, 168h	SP	–	No bubble, Or Delamination	
	WT–103	–	No bubble, Or Delamination	
Dielectric Strength DC 2KV,1min		–	No breaking	
Corrosion Resistance 0.1mol/L, Hcl,480h		Grade	8	
Heat Cut Strength		breakage		

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Tin coated steel tape:

The tin coating weight on both sides of tinplate is divided into two classes:same and different.Nominal adhesion weights and minimum averages of various tinplates are shown as follows:

Category marks	Classi-fication	Marking of adhesion weight	Nominal adhesion weights(g/m2)	Minimum average adhesion weights(g/m2)	Old JIS(G3303-1975)Marking of adhesion weight(for reference)
SPTE	Tin coating of same thickness	1.1/1.1	1.1/1.1	1.8	#10
		2.8/2.8	2.8/2.8	4.9	#25
		5.6/5.6	5.6/5.6	10.5	#50
		8.4/8.4	8.4/8.4	15.7	#75
		11.2/11.2	11.2/11.2	20.2	#100
	Tin coating of different thickness	2.8/1.1	2.8/1.1	2.25/0.90	#25/10
		5.6/2.8	5.6/2.8	5.05/2.25	#50/20
		8.4/2.8	8.4/2.8	7.85/2.25	#75/25
		8.4/5.6	8.4/5.6	7.85/5.05	#75/50

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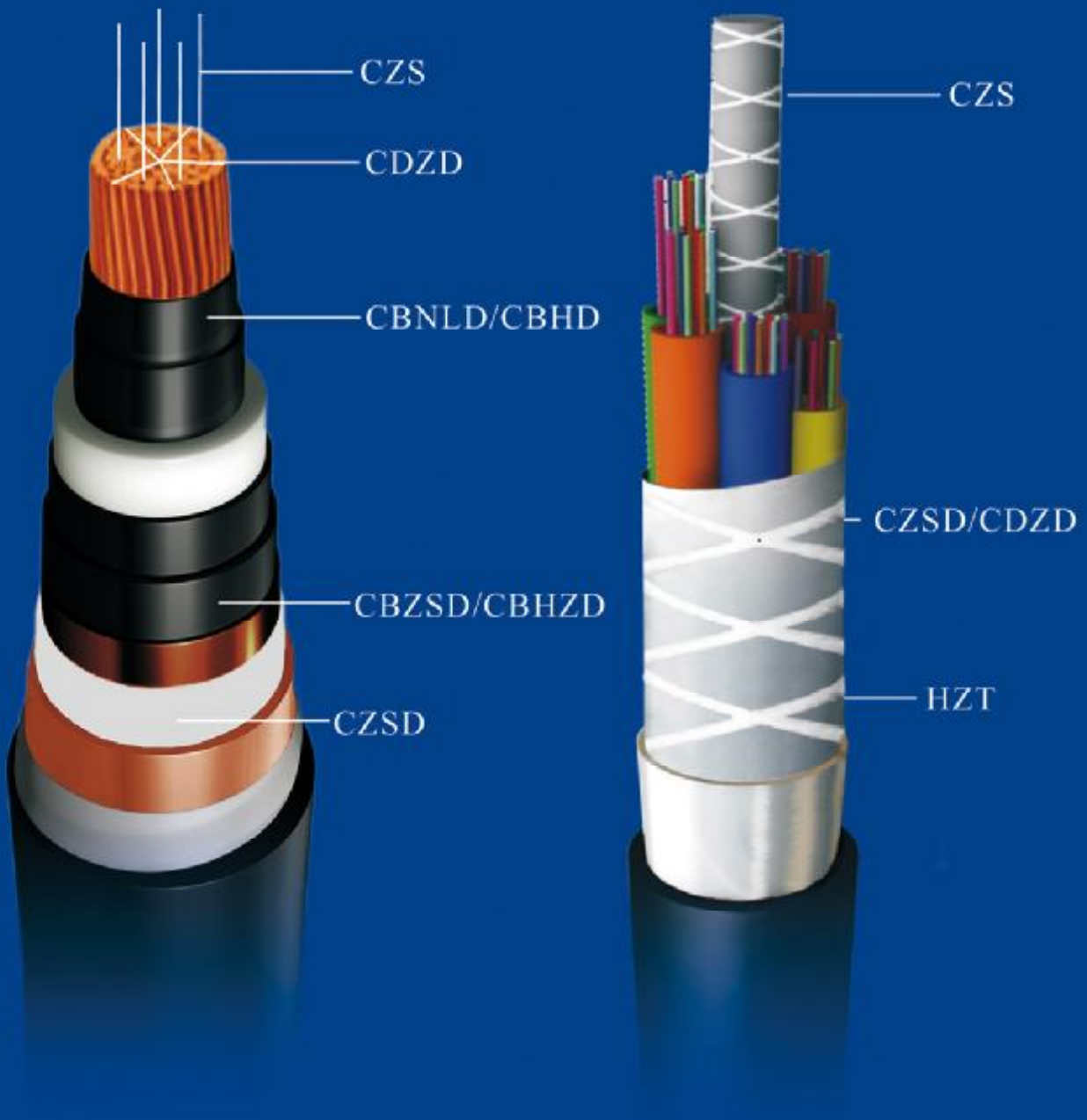
TAPES & YARNS



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YARNS





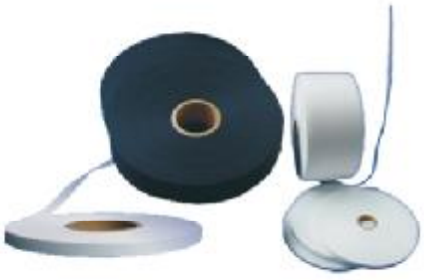
CZS
Water–blocking yarn
HZT
High tension polyester yarn
HZ
Polyester yarn
HT
Ripcord yarn
BSW
Watr–blocking glass yarn

BINDING,BEDDINGM BARRIER&SEPARATING TAPE



CWB
Non–woven tape
CHWB
Reinforced Non–woven tape
CHB
High strength Woven tape
CBNLD
Semi–conductive nylon tape
CBZD
Semi–conductive non–woven tape
CBHD
Semi–conductive woven toteron tape
CFR
Flame–retardant tape

NON–CONDUCTIVE WATER–BLOCKING TAPE



CZSD & CBZSD
Double–side water–blocking tape
CDZD & CBDZD
Single–side water–blocking tape
CHDZD & CHBSD
Reinforced water–blocking tape
CBHZD & CZHZD
Laminated water–blocking foam tape
CMZSD & CMBZD
Marine water–blocking tape

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